API Well Number: 43047549370000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

	1. WELL NAME and NUMBER GMBU 110-36-8-17
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** MONUMENT BUTTE
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME** GMBU (GRRV)
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY	**7. OPERATOR PHONE** 435 646-4825
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052	**9. OPERATOR E-MAIL** mcrozier@newfield.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-44305	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ○ STATE ◉ FEE ○	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ◉
19. SLANT VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○	

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	772 FNL 2011 FEL	NWNE	36	8.0 S	17.0 E	S
Top of Uppermost Producing Zone	1207 FNL 1992 FEL	NWNE	36	8.0 S	17.0 E	S
At Total Depth	1530 FNL 1989 FEL	SWNE	36	8.0 S	17.0 E	S

21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 1530	**23. NUMBER OF ACRES IN DRILLING UNIT** 20
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 660	**26. PROPOSED DEPTH** MD: 6320 TVD: 6268
27. ELEVATION - GROUND LEVEL 5043	**28. BOND NUMBER** B001834	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
PROD	7.875	5.5	0 - 6320	15.5	J-55 LT&C	8.3	Premium Lite High Strength	298	3.26	11.0
							50/50 Poz	363	1.24	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Mandie Crozier	**TITLE** Regulatory Tech	**PHONE** 435 646-4825
SIGNATURE	**DATE** 11/14/2014	**EMAIL** mcrozier@newfield.com

API NUMBER ASSIGNED
43047549370000

APPROVAL

Permit Manager

RECEIVED: February 24, 2015

NEWFIELD EXPLORATION
GMBU 110-36-8-17
AT SURFACE: NW/NE SECTION 36, T8S, R17E
UINTAH COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' –	1663'
Green River		1663'
Wasatch		6349'
Proposed TD	6320'(MD)	6268' (TVD)

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1663' – 6349'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO_3) (mg/l)
Dissolved Bicarbonate ($NaHCO_3$) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO_4) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

RECEIVED: November 14, 2014

4. *PROPOSED CASING PROGRAM*

a. Casing Design: GMBU 110-36-8-17

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,320'	15.5	J-55	LTC	4,810 2.39	4,040 2.01	217,000 2.22

Assumptions:
1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
2) Prod casing MASP (production mode) = Pore pressure – gas gradient
3) All collapse calculations assume fully evacuated casing w/ gas gradient
4) All tension calculations assume air weight

Frac gradient at surface casing shoe =	13.0 ppg
Pore pressure at surface casing shoe =	8.33 ppg
Pore pressure at prod casing shoe =	8.33 ppg
Gas gradient =	0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: GMBU 110-36-8-17

Job	Fill	Description	Sacks ft^3	OH Excess*	Weight (ppg)	Yield (ft^3/sk)
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,320'	Prem Lite II w/ 10% gel + 3% KCl	298 973	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

*Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±300 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Exploration will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

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bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the second quarter of 2015, and take approximately seven (7) days from spud to rig release.

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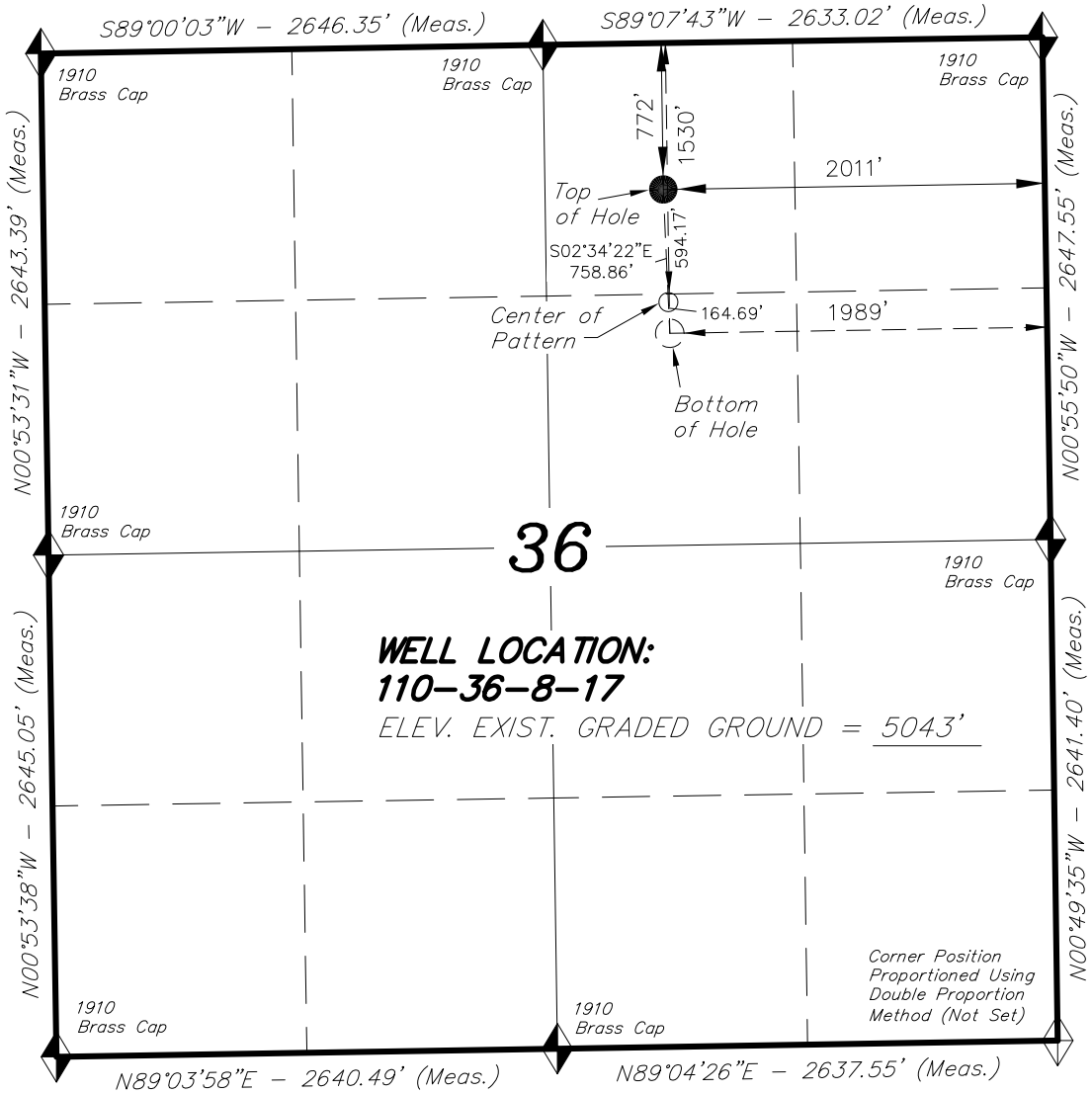
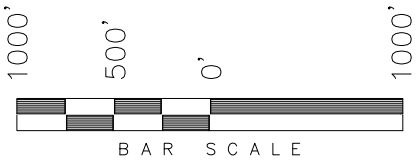
T8S, R17E, S.L.B.&M.



NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 110–36–8–17, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 110–36–8–17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 1366' FNL & 1994' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 08-27-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°04'46.49"	LONGITUDE = 109°57'09.60"
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°04'46.62"	LONGITUDE = 109°57'07.07"
NAD 83 (CENTER OF PATTERN)	**NAD 83 (BOTTOM HOLE LOCATION)**
LATITUDE = 40°04'40.62"	LONGITUDE = 109°57'09.39"
LATITUDE = 40°04'38.99"	LONGITUDE = 109°57'09.33"
NAD 27 (CENTER OF PATTERN)	**NAD 27 (BOTTOM HOLE LOCATION)**
LATITUDE = 40°04'40.75"	LONGITUDE = 109°57'06.86"
LATITUDE = 40°04'39.13"	LONGITUDE = 109°57'06.80"

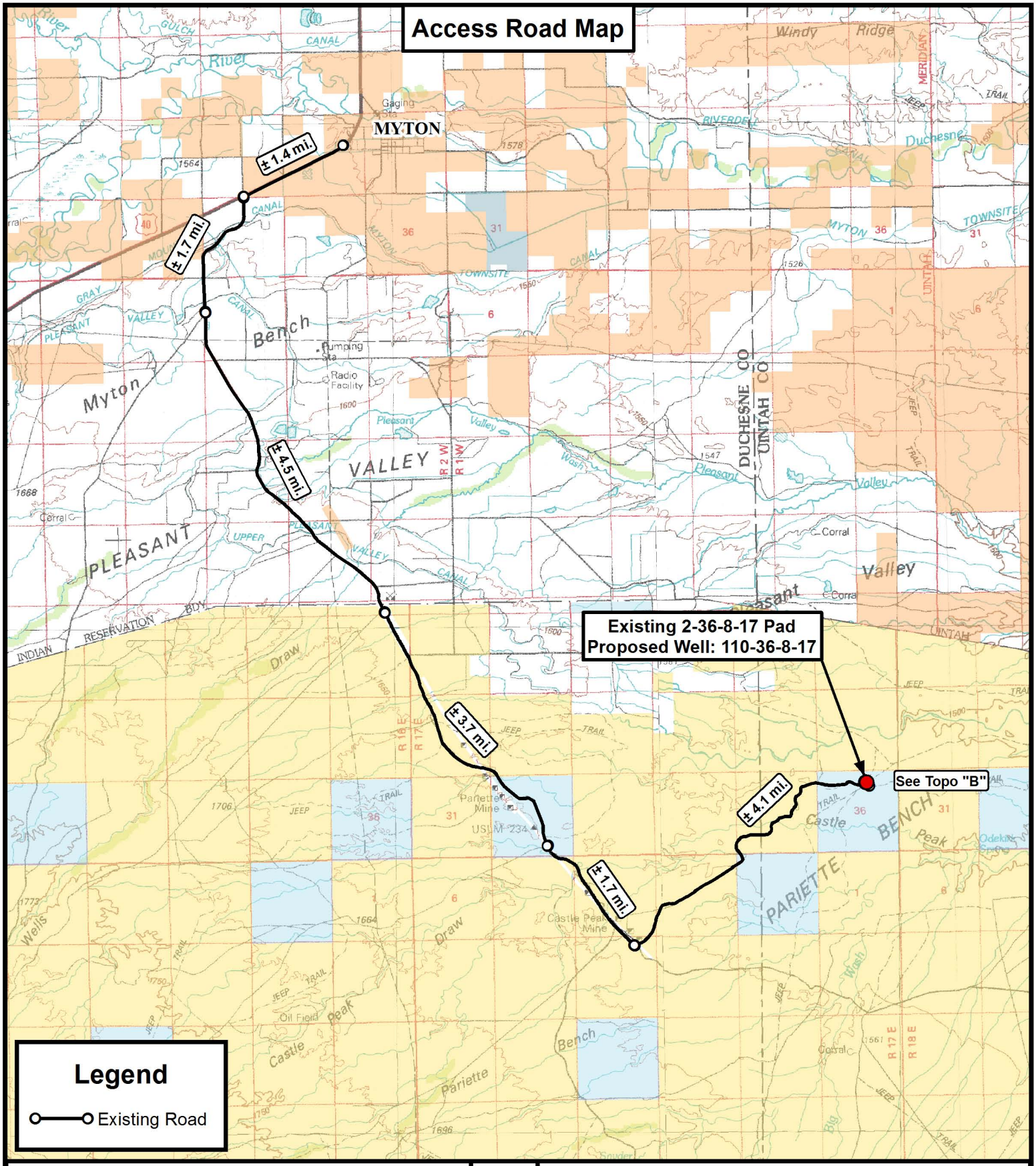
TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781–2501

DATE SURVEYED: 07–17–14	SURVEYED BY: T.R.P.	VERSION:
DATE DRAWN: 08–27–14	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

RECEIVED: November 14, 2014

API Well Number: 43047549370000

Access Road Map



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F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

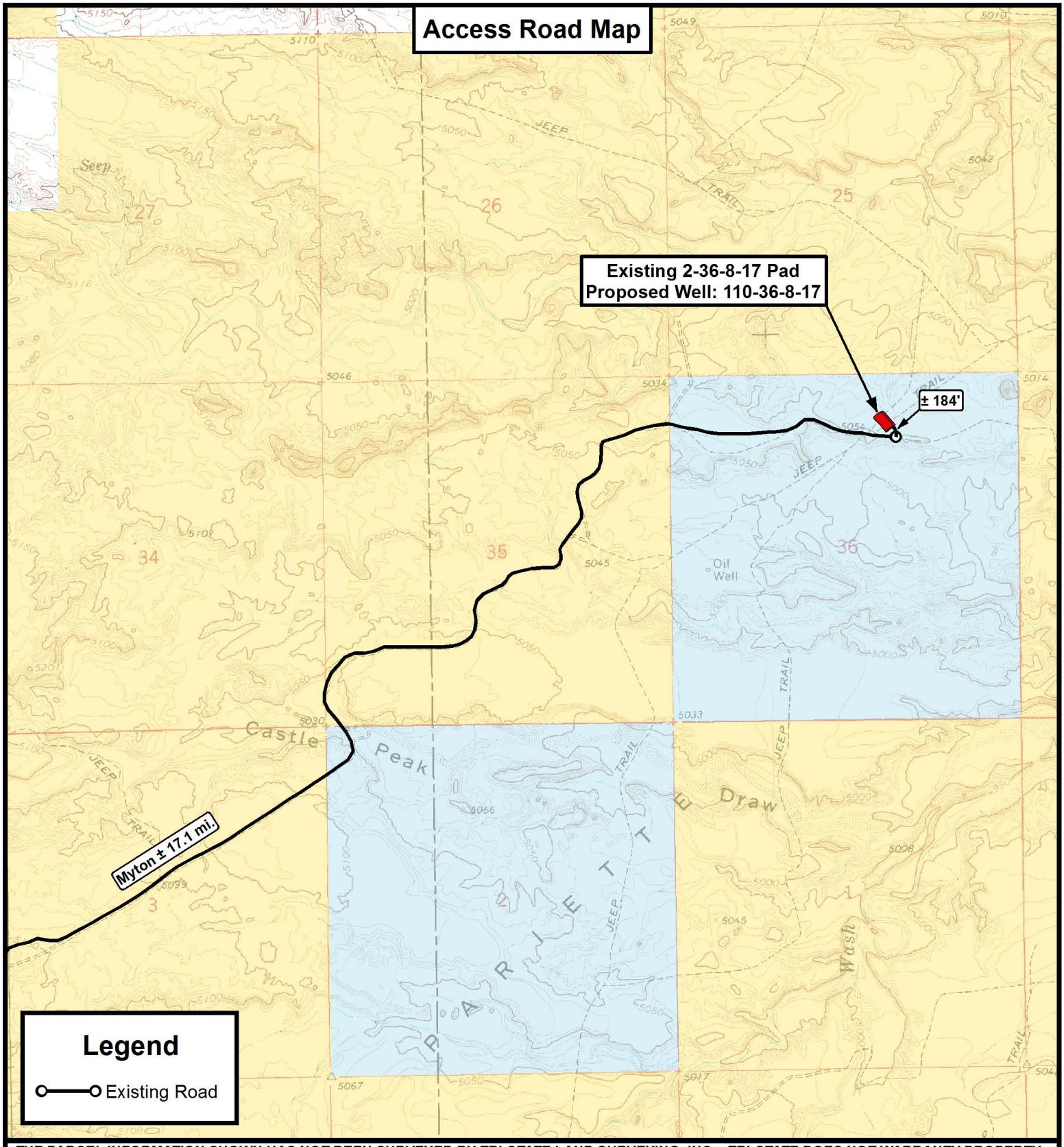
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-28-2014		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET **A**

API Well Number: 43047549370000

Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

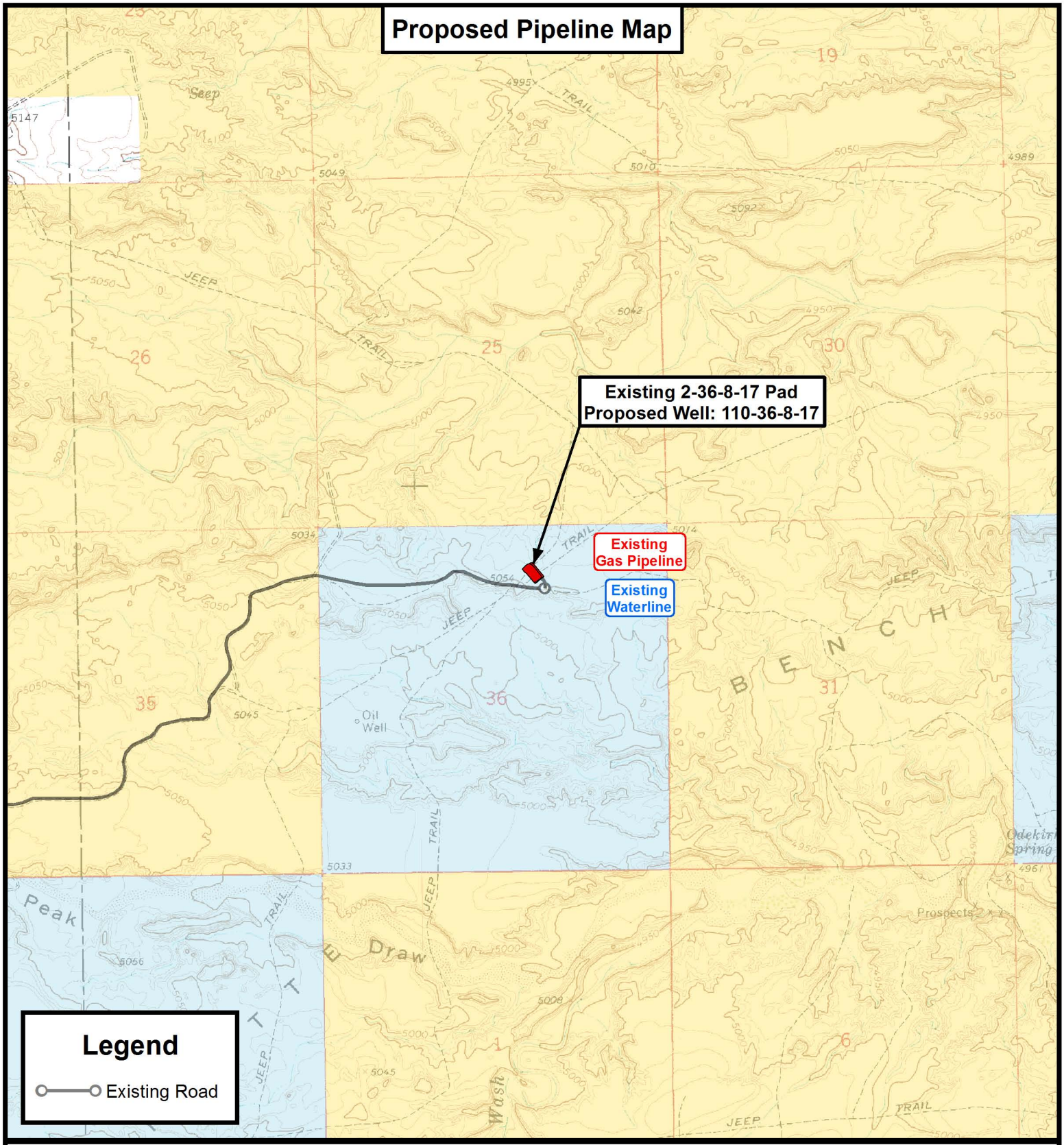
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-28-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43047549370000

Proposed Pipeline Map



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NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

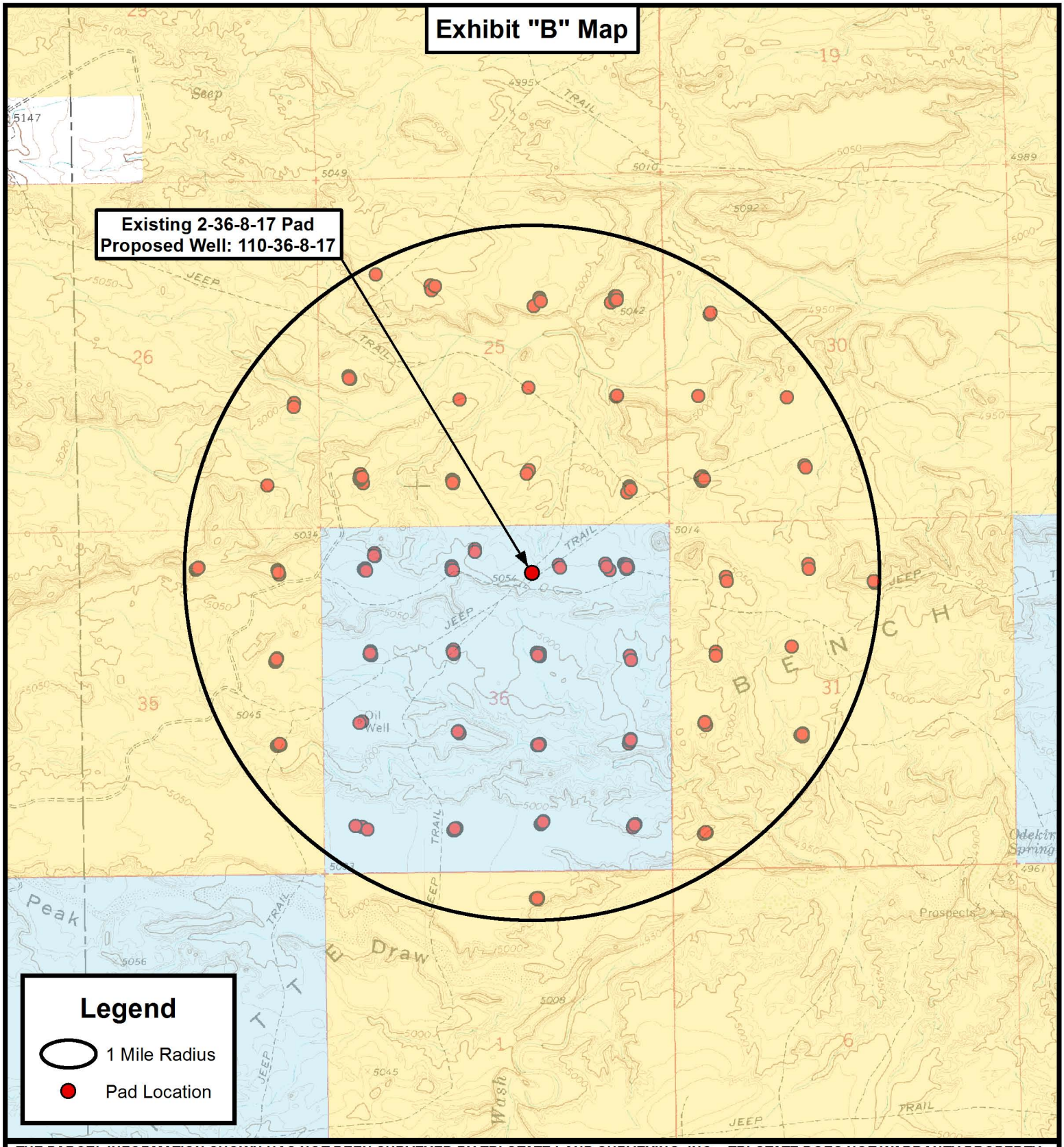
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-28-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43047549370000

Exhibit "B" Map



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NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-28-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET D

API Well Number: 43047549370000

Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
2-36-8-17	Surface Hole	40° 04' 46.54" N	109° 57' 10.42" W
C-36-8-17	Surface Hole	40° 04' 46.53" N	109° 57' 10.15" W
B-36-8-17	Surface Hole	40° 04' 46.51" N	109° 57' 09.87" W
110-36-8-17	Surface Hole	40° 04' 46.49" N	109° 57' 09.60" W
110-36-8-17	Center of Pattern	40° 04' 40.62" N	109° 57' 09.39" W
110-36-8-17	Bottom of Hole	40° 04' 38.99" N	109° 57' 09.33" W

Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
2-36-8-17	Surface Hole	40.079596	109.952895
C-36-8-17	Surface Hole	40.079591	109.952820
B-36-8-17	Surface Hole	40.079586	109.952742
110-36-8-17	Surface Hole	40.079580	109.952666
110-36-8-17	Center of Pattern	40.077950	109.952608
110-36-8-17	Bottom of Hole	40.077498	109.952591

Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
2-36-8-17	Surface Hole	4437116.889	589277.569
C-36-8-17	Surface Hole	4437116.457	589283.961
B-36-8-17	Surface Hole	4437115.966	589290.658
110-36-8-17	Surface Hole	4437115.372	589297.093
110-36-8-17	Center of Pattern	4436934.511	589304.217
110-36-8-17	Bottom of Hole	4436884.380	589306.192

Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
2-36-8-17	Surface Hole	40° 04' 46.68" N	109° 57' 07.89" W
C-36-8-17	Surface Hole	40° 04' 46.66" N	109° 57' 07.62" W
B-36-8-17	Surface Hole	40° 04' 46.64" N	109° 57' 07.34" W
110-36-8-17	Surface Hole	40° 04' 46.62" N	109° 57' 07.07" W
110-36-8-17	Center of Pattern	40° 04' 40.75" N	109° 57' 06.86" W
110-36-8-17	Bottom of Hole	40° 04' 39.13" N	109° 57' 06.80" W

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NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	
DATE:	08-28-2014		
VERSION:	V1		

COORDINATE REPORT

SHEET 1

RECEIVED: November 14, 2014

API Well Number: 43047549370000

Coordinate Report

Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
2-36-8-17	Surface Hole	40.079633	109.952192
C-36-8-17	Surface Hole	40.079628	109.952117
B-36-8-17	Surface Hole	40.079623	109.952038
110-36-8-17	Surface Hole	40.079617	109.951963
110-36-8-17	Center of Pattern	40.077987	109.951905
110-36-8-17	Bottom of Hole	40.077535	109.951888

Well Number	Feature Type	Northing (NAD 27) (UTM Meters)	Longitude (NAD 27) (UTM Meters)
2-36-8-17	Surface Hole	4436911.570	589339.821
C-36-8-17	Surface Hole	4436911.139	589346.213
B-36-8-17	Surface Hole	4436910.648	589352.910
110-36-8-17	Surface Hole	4436910.054	589359.345
110-36-8-17	Center of Pattern	4436729.193	589366.471
110-36-8-17	Bottom of Hole	4436679.062	589368.446

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NEWFIELD EXPLORATION COMPANY

Existing 2-36-8-17 Pad
Proposed Well: 110-36-8-17
Sec. 36, T8S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	
DATE:	08-28-2014		
VERSION:	V1		

COORDINATE REPORT

SHEET 2

RECEIVED: November 14, 2014

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 36 T8S, R17E
110-36-8-17

Wellbore #1

Plan: Design #1

Standard Planning Report

27 August, 2014

RECEIVED: November 14, 2014

NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 110-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	110-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 36 T8S, R17E				
Site Position:		**Northing:**	7,201,754.67 usft	**Latitude:**	40° 4' 49.860 N
From:	Lat/Long	**Easting:**	2,070,893.92 usft	**Longitude:**	109° 57' 41.220 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.99 °

Well	110-36-8-17, SHL: 40° 4' 46.490 -109° 57' 9.600				
Well Position	**+N/-S**	-340.9 usft	**Northing:**	7,201,456.12 usft	**Latitude:**	40° 4' 46.490 N
	+E/-W	2,457.7 usft	**Easting:**	2,073,357.10 usft	**Longitude:**	109° 57' 9.600 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	5,054.0 usft	**Ground Level:**	5,043.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	8/22/2014	10.87	65.76	51,993

Design	Design #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	177.43	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,133.2	8.00	177.43	1,131.4	-37.1	1.7	1.50	1.50	0.00	177.43	
5,136.7	8.00	177.43	5,096.0	-593.6	26.6	0.00	0.00	0.00	0.00	110-36-8-17 TGT
6,320.2	8.00	177.43	6,268.0	-758.1	34.0	0.00	0.00	0.00	0.00	

RECEIVED: November 14, 2014

NEWFIELD

Payzone Directional

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 110-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	110-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	177.43	700.0	-1.3	0.1	1.3	1.50	1.50	0.00
800.0	3.00	177.43	799.9	-5.2	0.2	5.2	1.50	1.50	0.00
900.0	4.50	177.43	899.7	-11.8	0.5	11.8	1.50	1.50	0.00
1,000.0	6.00	177.43	999.3	-20.9	0.9	20.9	1.50	1.50	0.00
1,100.0	7.50	177.43	1,098.6	-32.6	1.5	32.7	1.50	1.50	0.00
1,133.2	8.00	177.43	1,131.4	-37.1	1.7	37.2	1.50	1.50	0.00
1,200.0	8.00	177.43	1,197.6	-46.4	2.1	46.4	0.00	0.00	0.00
1,300.0	8.00	177.43	1,296.6	-60.3	2.7	60.4	0.00	0.00	0.00
1,400.0	8.00	177.43	1,395.7	-74.2	3.3	74.3	0.00	0.00	0.00
1,500.0	8.00	177.43	1,494.7	-88.1	4.0	88.2	0.00	0.00	0.00
1,600.0	8.00	177.43	1,593.7	-102.0	4.6	102.1	0.00	0.00	0.00
1,700.0	8.00	177.43	1,692.8	-115.9	5.2	116.0	0.00	0.00	0.00
1,800.0	8.00	177.43	1,791.8	-129.8	5.8	129.9	0.00	0.00	0.00
1,900.0	8.00	177.43	1,890.8	-143.7	6.4	143.8	0.00	0.00	0.00
2,000.0	8.00	177.43	1,989.8	-157.6	7.1	157.8	0.00	0.00	0.00
2,100.0	8.00	177.43	2,088.9	-171.5	7.7	171.7	0.00	0.00	0.00
2,200.0	8.00	177.43	2,187.9	-185.4	8.3	185.6	0.00	0.00	0.00
2,300.0	8.00	177.43	2,286.9	-199.3	8.9	199.5	0.00	0.00	0.00
2,400.0	8.00	177.43	2,385.9	-213.2	9.6	213.4	0.00	0.00	0.00
2,500.0	8.00	177.43	2,485.0	-227.1	10.2	227.3	0.00	0.00	0.00
2,600.0	8.00	177.43	2,584.0	-241.0	10.8	241.2	0.00	0.00	0.00
2,700.0	8.00	177.43	2,683.0	-254.9	11.4	255.1	0.00	0.00	0.00
2,800.0	8.00	177.43	2,782.1	-268.8	12.1	269.1	0.00	0.00	0.00
2,900.0	8.00	177.43	2,881.1	-282.7	12.7	283.0	0.00	0.00	0.00
3,000.0	8.00	177.43	2,980.1	-296.6	13.3	296.9	0.00	0.00	0.00
3,100.0	8.00	177.43	3,079.1	-310.5	13.9	310.8	0.00	0.00	0.00
3,200.0	8.00	177.43	3,178.2	-324.4	14.6	324.7	0.00	0.00	0.00
3,300.0	8.00	177.43	3,277.2	-338.3	15.2	338.6	0.00	0.00	0.00
3,400.0	8.00	177.43	3,376.2	-352.2	15.8	352.5	0.00	0.00	0.00
3,500.0	8.00	177.43	3,475.2	-366.1	16.4	366.5	0.00	0.00	0.00
3,600.0	8.00	177.43	3,574.3	-380.0	17.1	380.4	0.00	0.00	0.00
3,700.0	8.00	177.43	3,673.3	-393.9	17.7	394.3	0.00	0.00	0.00
3,800.0	8.00	177.43	3,772.3	-407.8	18.3	408.2	0.00	0.00	0.00
3,900.0	8.00	177.43	3,871.4	-421.7	18.9	422.1	0.00	0.00	0.00
4,000.0	8.00	177.43	3,970.4	-435.6	19.6	436.0	0.00	0.00	0.00
4,100.0	8.00	177.43	4,069.4	-449.5	20.2	449.9	0.00	0.00	0.00
4,200.0	8.00	177.43	4,168.4	-463.4	20.8	463.8	0.00	0.00	0.00
4,300.0	8.00	177.43	4,267.5	-477.3	21.4	477.8	0.00	0.00	0.00
4,400.0	8.00	177.43	4,366.5	-491.2	22.0	491.7	0.00	0.00	0.00
4,500.0	8.00	177.43	4,465.5	-505.1	22.7	505.6	0.00	0.00	0.00
4,600.0	8.00	177.43	4,564.6	-519.0	23.3	519.5	0.00	0.00	0.00
4,700.0	8.00	177.43	4,663.6	-532.9	23.9	533.4	0.00	0.00	0.00
4,800.0	8.00	177.43	4,762.6	-546.8	24.5	547.3	0.00	0.00	0.00
4,900.0	8.00	177.43	4,861.6	-560.7	25.2	561.2	0.00	0.00	0.00
5,000.0	8.00	177.43	4,960.7	-574.6	25.8	575.2	0.00	0.00	0.00
5,100.0	8.00	177.43	5,059.7	-588.5	26.4	589.1	0.00	0.00	0.00
5,136.7	8.00	177.43	5,096.0	-593.6	26.6	594.2	0.00	0.00	0.00

RECEIVED: November 14, 2014

NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well 110-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	110-36-8-17 @ 5054.0usft (PLAN KB)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	110-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	8.00	177.43	5,158.7	-602.4	27.0	603.0	0.00	0.00	0.00
5,300.0	8.00	177.43	5,257.7	-616.3	27.7	616.9	0.00	0.00	0.00
5,400.0	8.00	177.43	5,356.8	-630.2	28.3	630.8	0.00	0.00	0.00
5,500.0	8.00	177.43	5,455.8	-644.1	28.9	644.7	0.00	0.00	0.00
5,600.0	8.00	177.43	5,554.8	-658.0	29.5	658.6	0.00	0.00	0.00
5,700.0	8.00	177.43	5,653.9	-671.9	30.2	672.5	0.00	0.00	0.00
5,800.0	8.00	177.43	5,752.9	-685.8	30.8	686.5	0.00	0.00	0.00
5,900.0	8.00	177.43	5,851.9	-699.7	31.4	700.4	0.00	0.00	0.00
6,000.0	8.00	177.43	5,950.9	-713.6	32.0	714.3	0.00	0.00	0.00
6,100.0	8.00	177.43	6,050.0	-727.5	32.7	728.2	0.00	0.00	0.00
6,200.0	8.00	177.43	6,149.0	-741.4	33.3	742.1	0.00	0.00	0.00
6,300.0	8.00	177.43	6,248.0	-755.3	33.9	756.0	0.00	0.00	0.00
6,320.2	8.00	177.43	6,268.0	-758.1	34.0	758.8	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
110-36-8-17 TGT - plan hits target center - Circle (radius 75.0)	0.00	0.00	5,096.0	-593.6	26.6	7,200,863.10	2,073,394.00	40° 4' 40.623 N	109° 57' 9.257 W

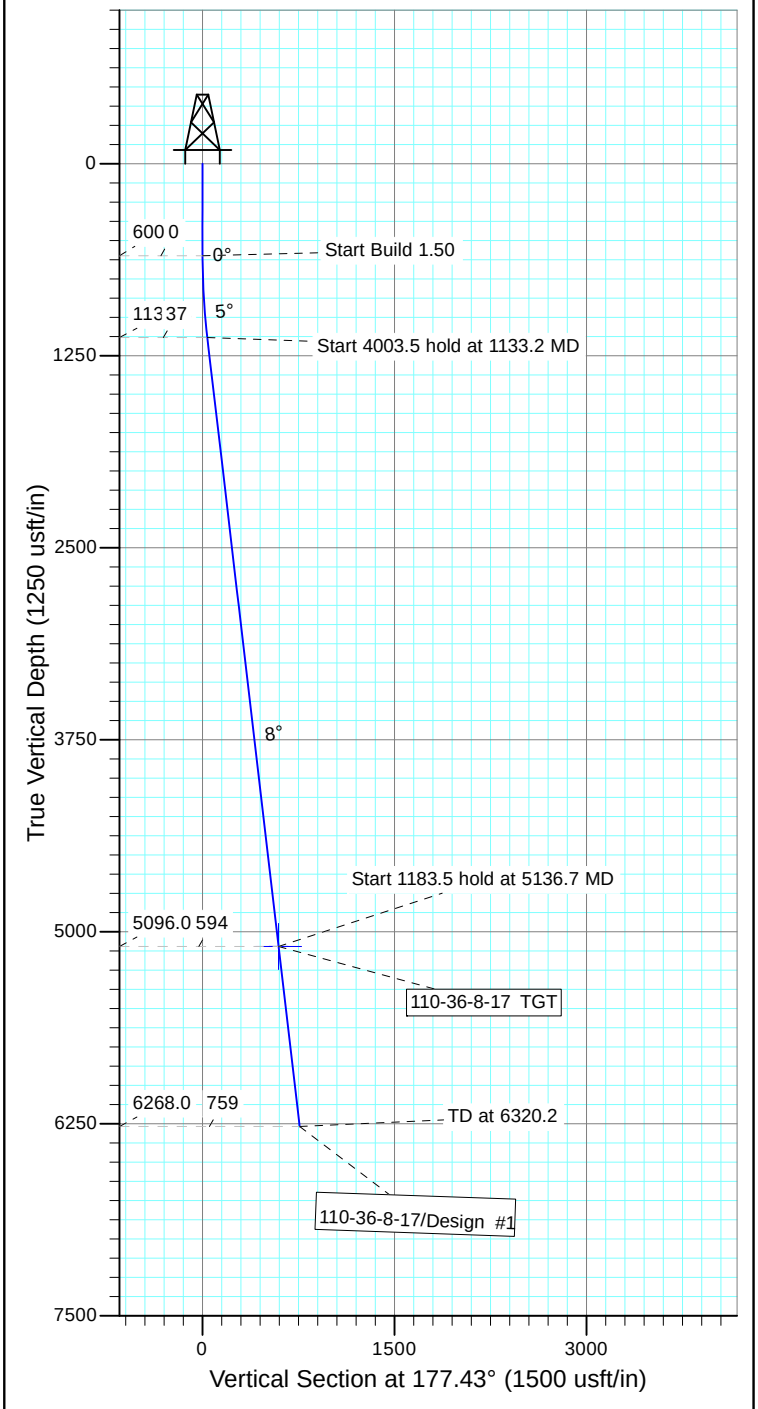
API Well Number: 43047549370000

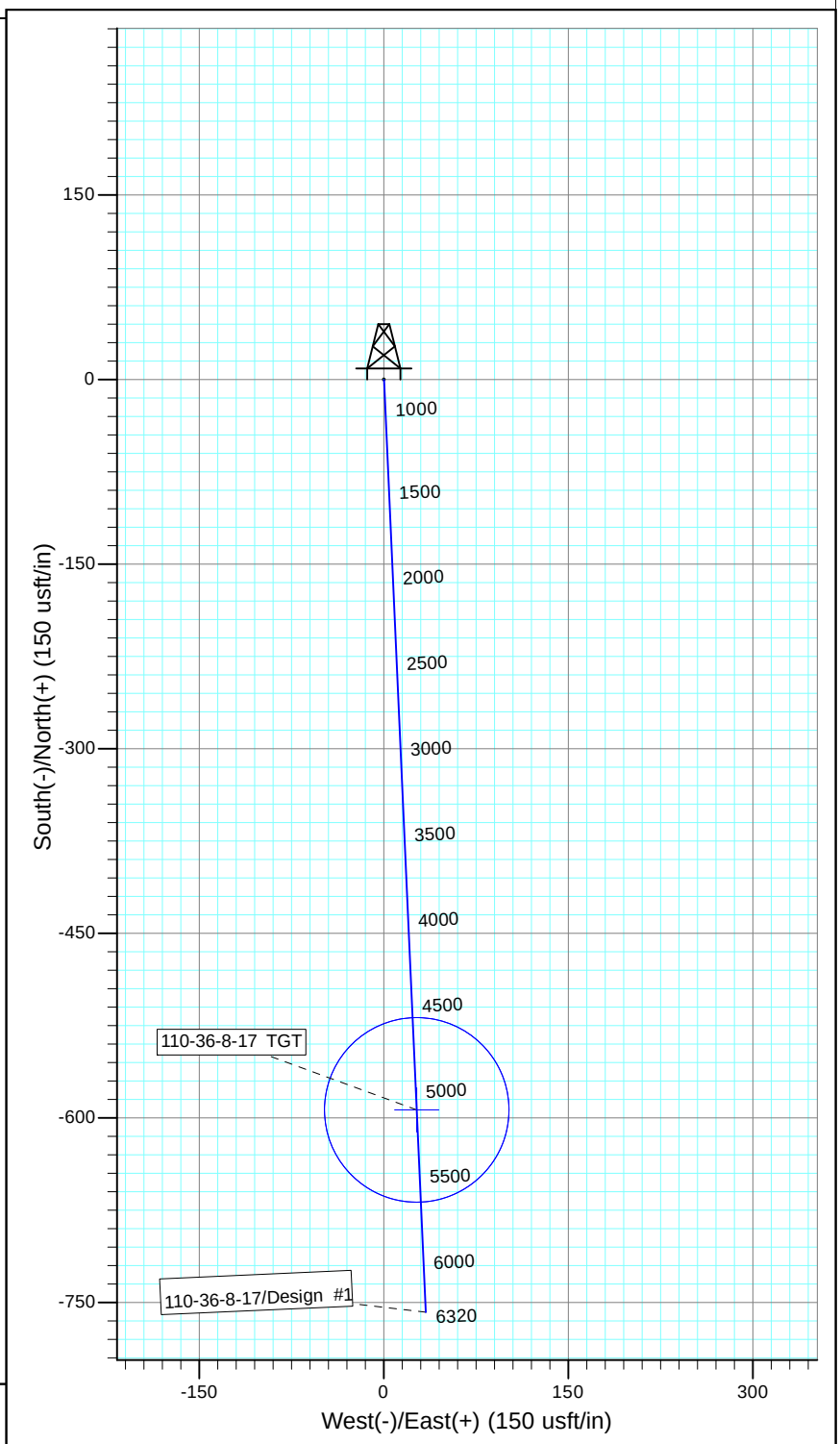
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R17E
Well: 110-36-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.86°

Magnetic Field
Strength: 51993.3snT
Dip Angle: 65.76°
Date: 8/22/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
110-36-8-17 TGT	5096.0	-593.6	26.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1133.2	8.00	177.43	1131.4	-37.1	1.7	1.50	177.43	37.2	
4	5136.7	8.00	177.43	5096.0	-593.6	26.6	0.00	0.00	594.2	110-36-8-17 TGT
5	6320.2	8.00	177.43	6268.0	-758.1	34.0	0.00	0.00	758.8	

PAYZONE DIRECTIONAL

NEWFIELD EXPLORATION
GMBU 110-36-8-17
AT SURFACE: NW/NE SECTION 36, T8S R17E
UINTAH COUNTY, UTAH

MULTI-POINT SURFACE USE & OPERATIONS PLAN

This is a existing pad with two 20 acre directional wells and one proposed 10 acre directional well.

1. EXISTING ROADS

To reach Newfield Exploration well location site GMBU 110-36-8-17 located in the NW 1/4 NE 1/4 Section 36, T8S, R17E, Uintah County, Utah:

a) Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 – 1.7 miles ± to it's junction with an existing road to the southeast; proceed southeasterly – 9.9 miles ± to it's junction with an existing road to the northeast; proceed in a northeasterly direction – 4.1 miles ± to it's junction with the beginning of the access road to the north; proceed in a northwesterly direction along the access raod – 184' ± to the existing 2-36-8-17 well location.

b) The proposed location is approximately 17.1 miles southeast of Roosevelt, Utah

c) Existing native surface roads in the area range from clays to a sandy-clay shale material.

d) Access roads will be maintained at the standards required by UDOT, Duchesne County or other controlling agencies. This maintenance will consist of some minor grader work for road surfacing and snow removal. Any necessary fill material for repair will be purchased and hauled from private sources.

2. PLANNED ACCESS ROAD

a) There is not new access road planned for the proposed well. See attached Topographic Map "B".

b) There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

c) There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

3. LOCATION OF EXISTING WELLS

a) Refer to Topographic Map "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

a) There are no existing facilities that will be utilized.

b) It is anticipated that this well will be a producing oil well with some associated natural gas.

c) Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

d) Tank batteries will be built to Federal Gold Book specifications.

e) All permanent above-ground structures would be painted a flat, non-reflective covert green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation (weather permitting). Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

5. *LOCATION AND TYPE OF WATER SUPPLY*

a) Newfield Exploration will transport water by truck from nearest water source. The available water sources are as follows:

- Johnson Water District (Water Right : 43-7478)
- Maurice Harvey Pond (Water Right: 47-1358)
- Neil Moon Pond (Water Right: 43-11787)
- Newfield Collector Well (Water Right: 47-1817 - A30414DVA, contracted with the Duchesne County Conservancy District).

6. *SOURCE OF CONSTRUCTION MATERIALS*

a) Construction material for this access road will be borrowed material accumulated during construction of the access road. If any additional borrow or gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. *METHODS FOR HANDLING WASTE DISPOSAL*

a) A small pit (80 feet x 120 feet x 8 feet deep, or less) will be constructed inboard of the pad area. The pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM.

b) The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times.

c) A portable toilet will be provided for human waste.

d) A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

e) After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

f) All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Newfield Exploration guarantees that during the drilling and completion of the referenced well, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the referenced well, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

8. ANCILLARY FACILITIES

a) There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

a) See attached Location Layout Sheet.

Fencing Requirements

a) All pits will be fenced or have panels installed consistent with the following minimum standards:

1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times

3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

b) The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE:

a) Producing Location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

2. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting; the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

1. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP

a) State of Utah.

12. OTHER ADDITIONAL INFORMATION

a) Montgomery Archeological Consultants, Inc. has conducted a Class III archeological survey. MOAC Report # 14-278, 10/7/14. The report has been submitted under separate cover by Montgomery Archeological Consultants, Inc. Newfield would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

b) SWCA Environmental Consultants has conducted a paleontological survey. The report has been submitted under separate cover by SWCA. Report # UT14-14273-166, October 2014.

c) Newfield Exploration will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On federal administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

d) A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:

Representative

Name: Corie Miller

Address: Newfield Exploration
Route 3, Box 3630
Myton, UT 84052

Telephone: (435) 646-3721

Certification

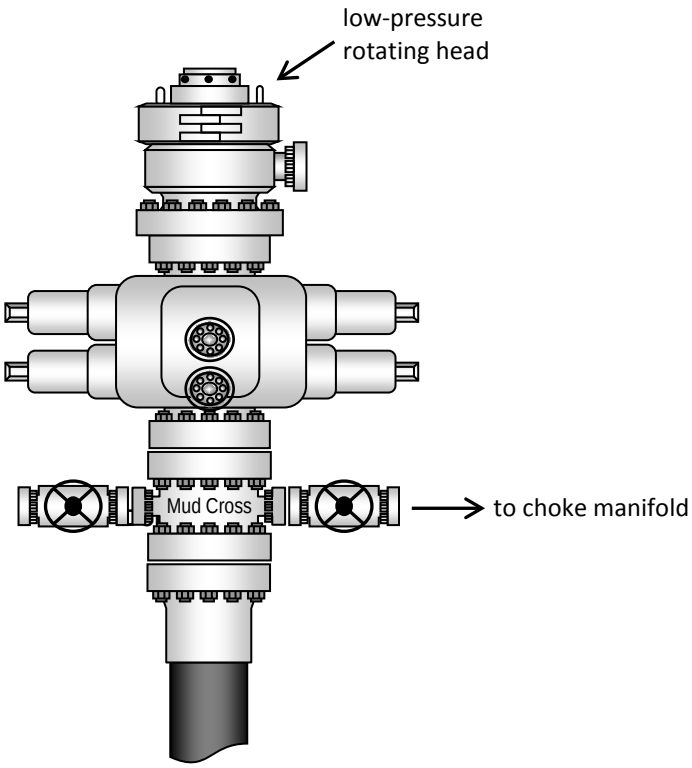
Please be advised that NEWFIELD EXPLORATION is considered to be the operator of well #110-36-8-17, Section 36, Township 8S, Range 17E: Lease ML-44305, Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Utah State Bond #B001834.

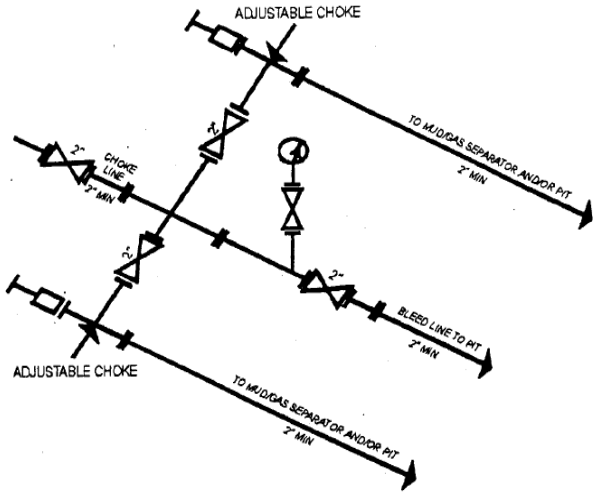
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Exploration and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

11/14/14
Date

Mandie Crozier
Regulatory Specialist
Newfield Exploration

Typical 2M BOP stack configuration





2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

RECEIVED: November 14, 2014

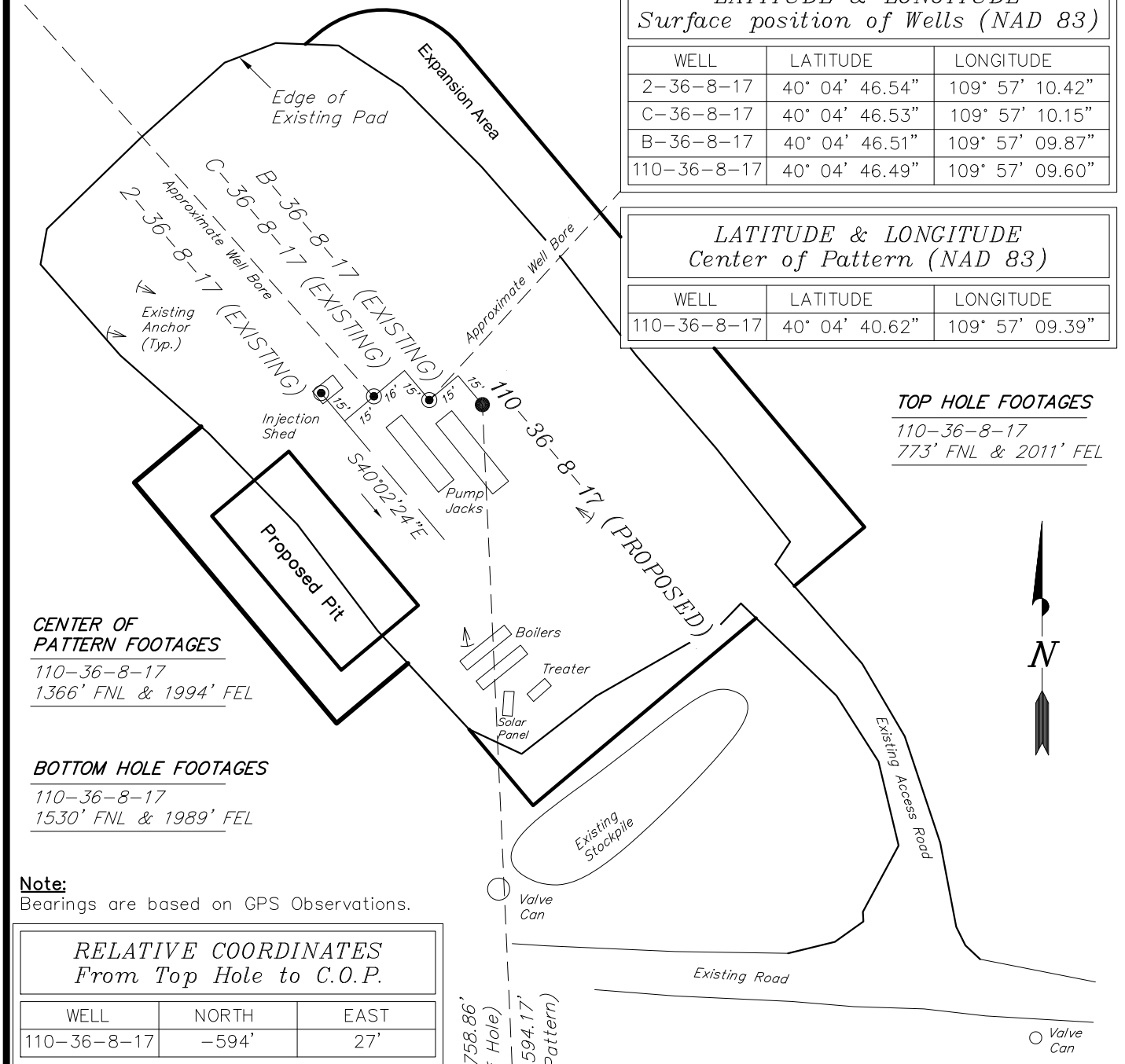
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

EXISTING 2-36-8-17 PAD

PROPOSED WELL: 110-36-8-17

Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
2-36-8-17	40° 04' 46.54"	109° 57' 10.42"
C-36-8-17	40° 04' 46.53"	109° 57' 10.15"
B-36-8-17	40° 04' 46.51"	109° 57' 09.87"
110-36-8-17	40° 04' 46.49"	109° 57' 09.60"

LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

WELL	LATITUDE	LONGITUDE
110-36-8-17	40° 04' 40.62"	109° 57' 09.39"

TOP HOLE FOOTAGES
110-36-8-17
773' FNL & 2011' FEL

CENTER OF PATTERN FOOTAGES
110-36-8-17
1366' FNL & 1994' FEL

BOTTOM HOLE FOOTAGES
110-36-8-17
1530' FNL & 1989' FEL

Note:
Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to C.O.P.

WELL	NORTH	EAST
110-36-8-17	-594'	27'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
110-36-8-17	-758'	34'

S02°34'22"E - 758.86' (To Bottom of Hole)
S02°34'22"E - 594.17' (To Center of Pattern)

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

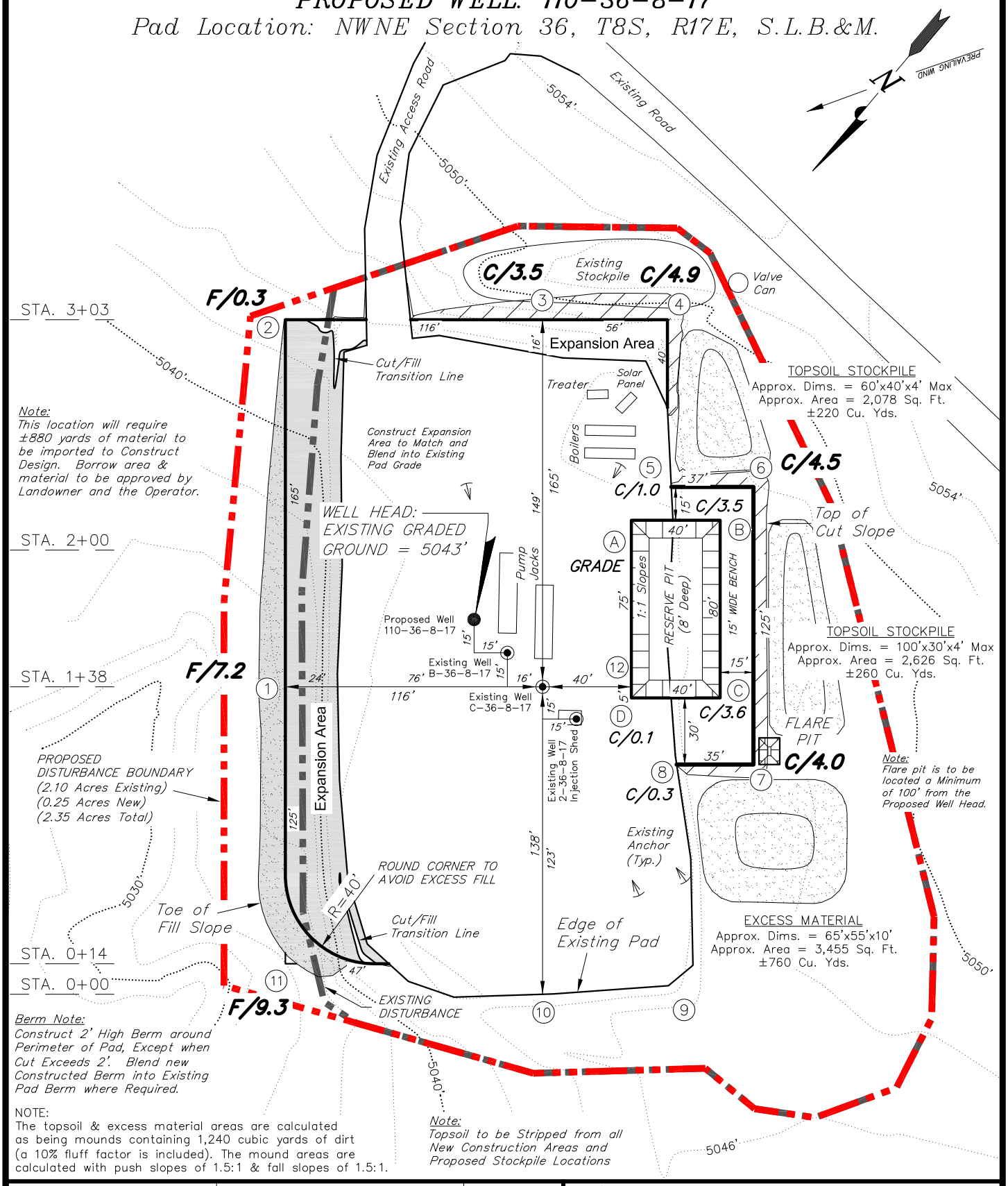
WELL	LATITUDE	LONGITUDE
110-36-8-17	40° 04' 38.99"	109° 57' 09.33"

SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT
EXISTING 2-36-8-17 PAD
PROPOSED WELL: 110-36-8-17
Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,240 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

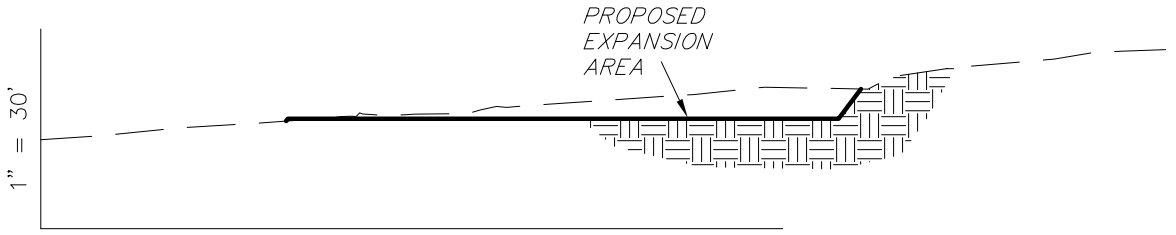
SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

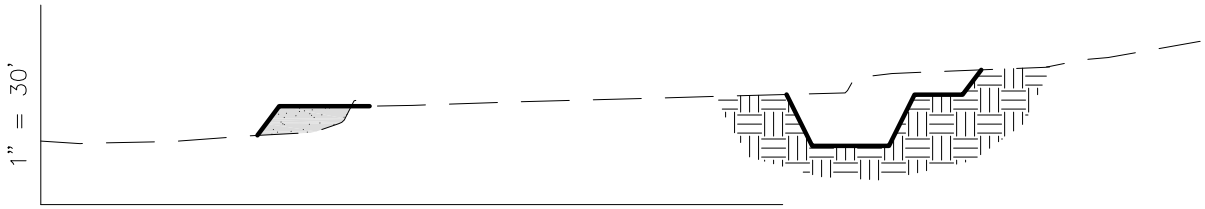
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS
EXISTING 2-36-8-17 PAD
PROPOSED WELL: 110-36-8-17

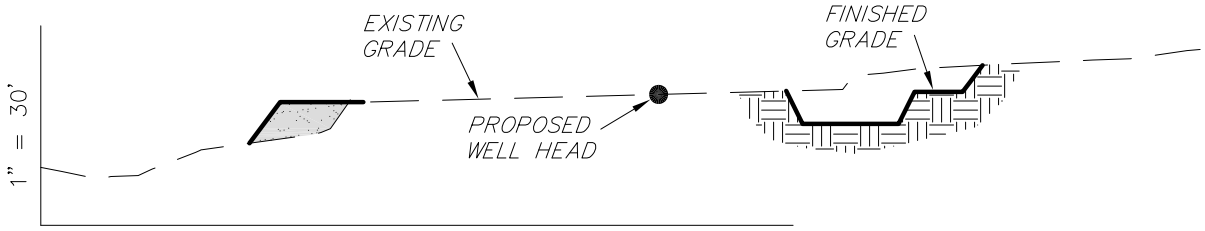
Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



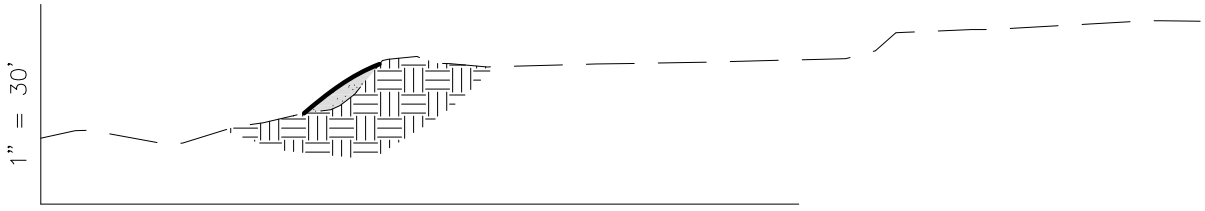
STA. 3+04



STA. 2+00



STA. 1+38



STA. 0+00

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

Note:
This location will require ±880 yards of material to be imported to Construct Design. Borrow area & material to be approved by Landowner and the Operator.

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	490	1,370	Topsoil is not included in Pad Cut	-880
PIT	690	0		690
TOTALS	1,180	1,370	440	-190

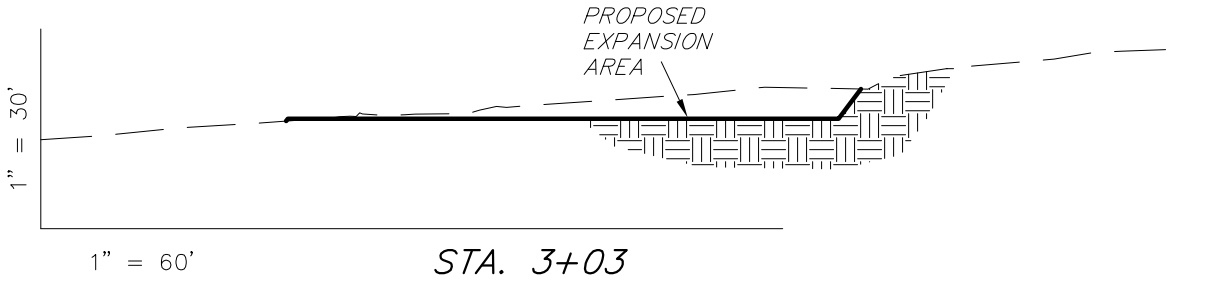
SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

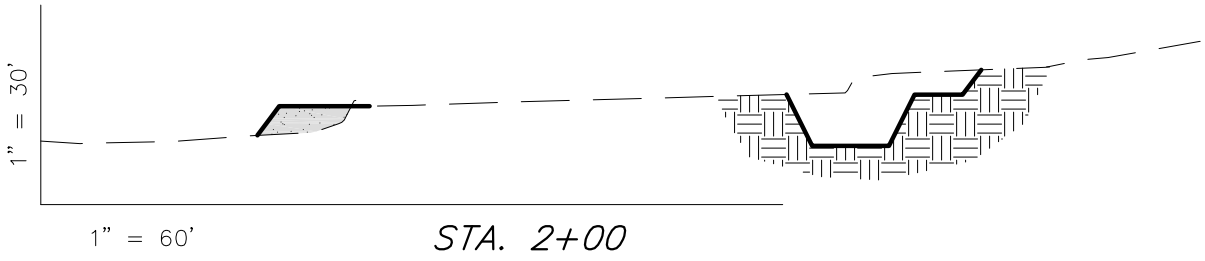
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS
EXISTING 2-36-8-17 PAD
PROPOSED WELL: 110-36-8-17

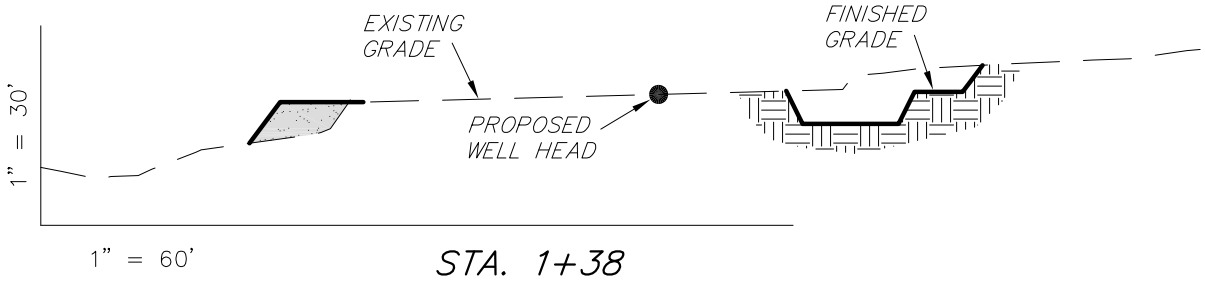
Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



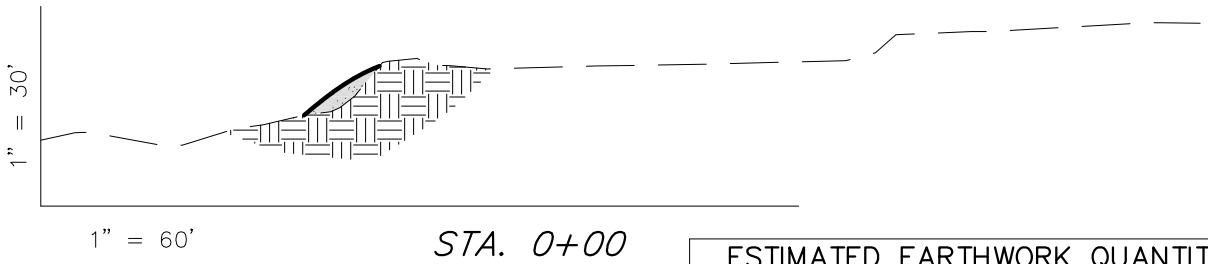
STA. 3+03



STA. 2+00



STA. 1+38



STA. 0+00

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

Note:
This location will require ±880 yards of material to be imported to Construct Design. Borrow area & material to be approved by Landowner and the Operator.

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	490	1,370	Topsoil is not included in Pad Cut	-880
PIT	690	0		690
TOTALS	1,180	1,370	440	-190

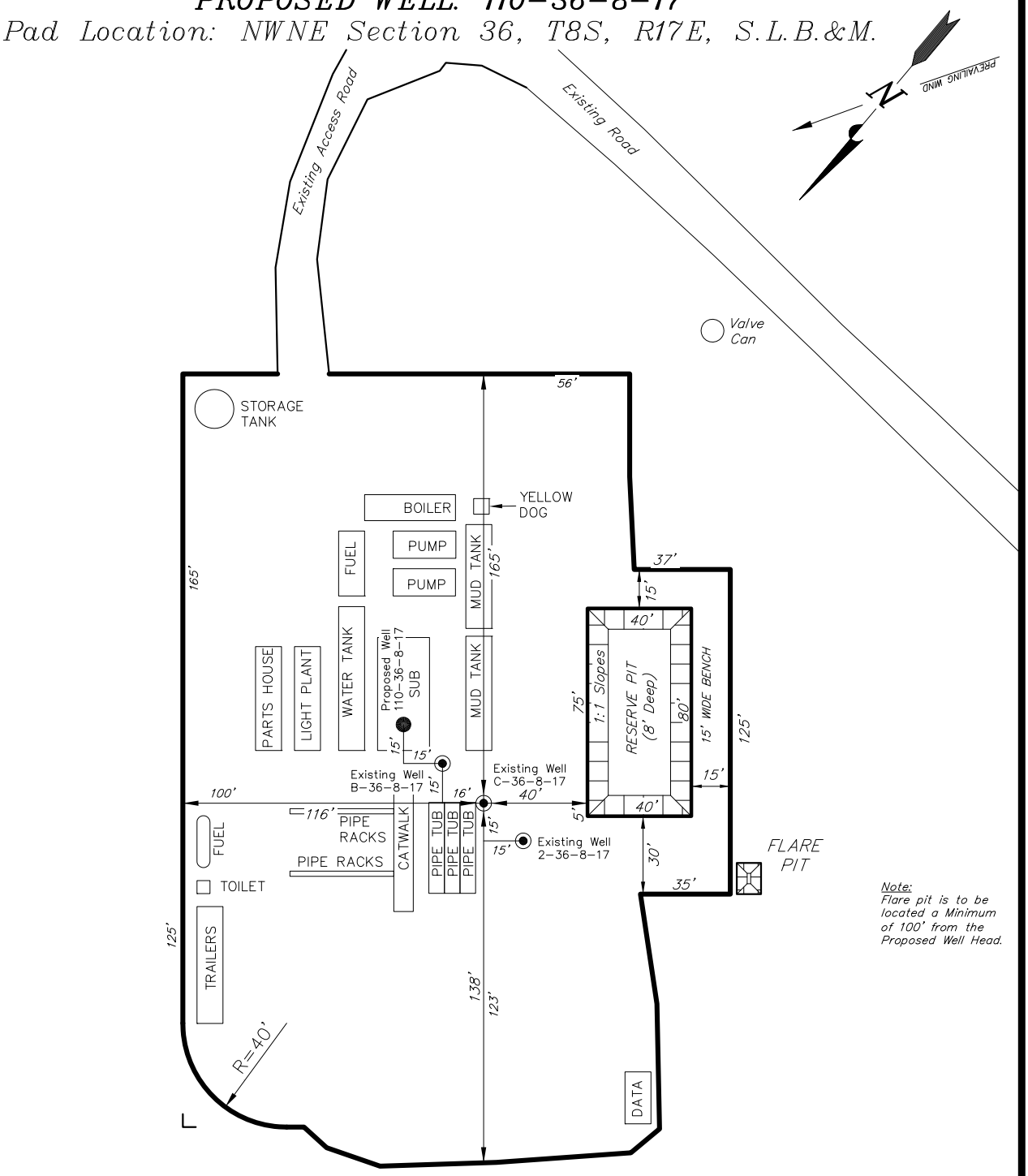
SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT
EXISTING 2-36-8-17 PAD
PROPOSED WELL: 110-36-8-17

Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

API Well Number: 43047549370000

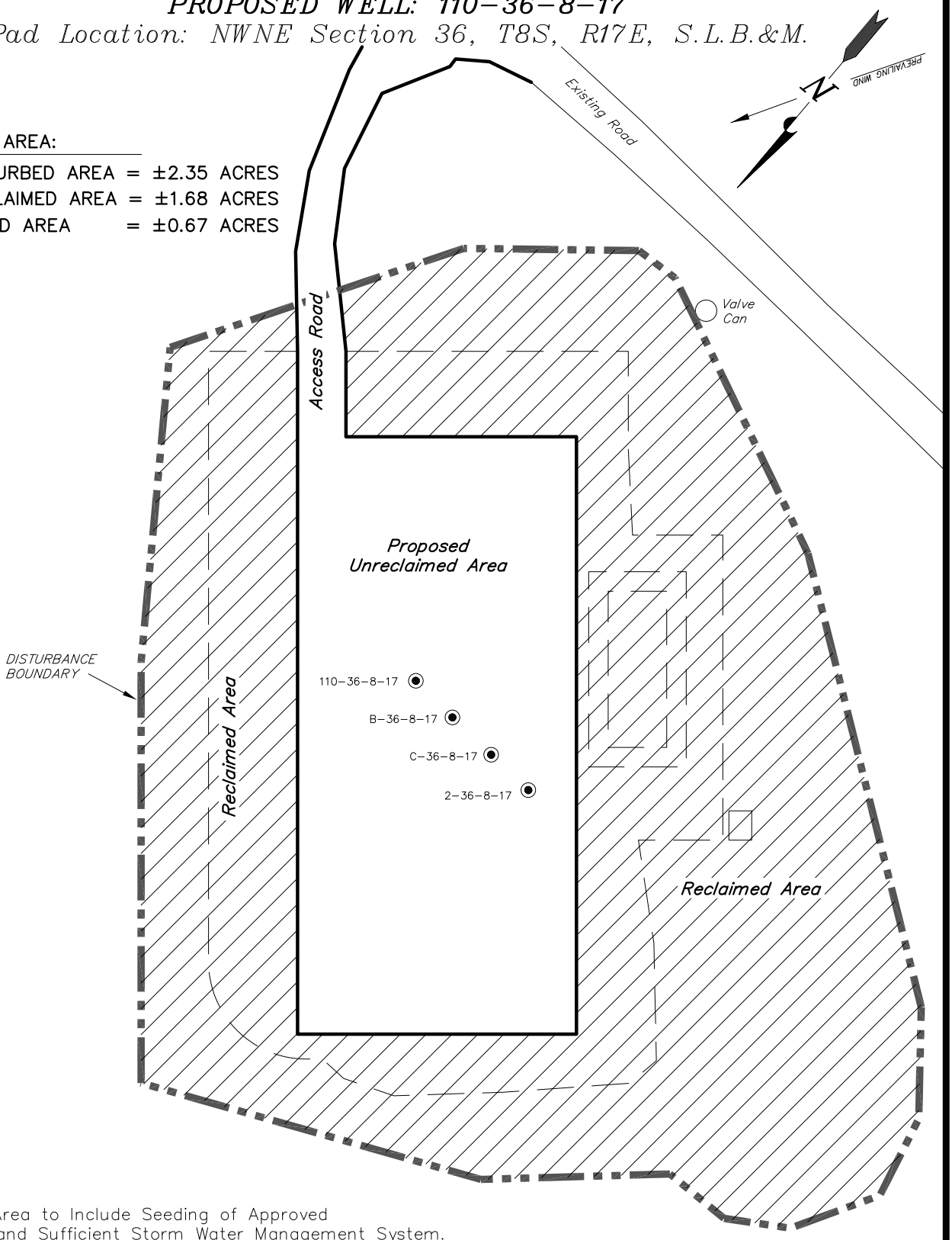
NEWFIELD EXPLORATION COMPANY

RECLAMATION LAYOUT

EXISTING 2-36-8-17 PAD

PROPOSED WELL: 110-36-8-17

Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.



DISTURBED AREA:

TOTAL DISTURBED AREA = ±2.35 ACRES
TOTAL RECLAIMED AREA = ±1.68 ACRES
UNRECLAIMED AREA = ±0.67 ACRES

Notes:
1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

SURVEYED BY: T.R.P.	DATE SURVEYED: 07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 14, 2014

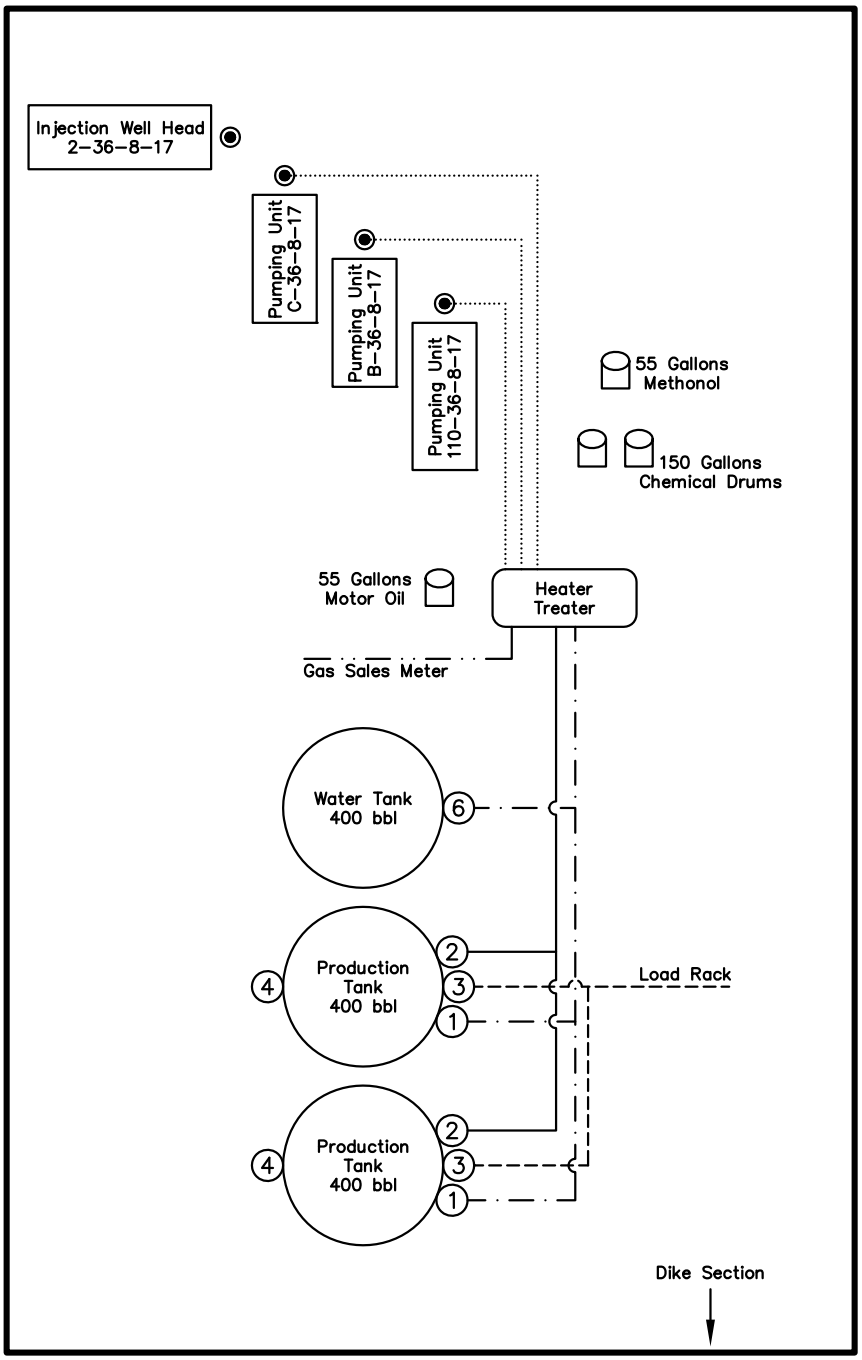
API Well Number: 43047549370000

NEWFIELD EXPLORATION COMPANY

PROPOSED SITE FACILITY DIAGRAM

2-36-8-17 PAD
C-36-8-17 ML-44305
B-36-8-17 ML-44305
110-36-8-17 ML-44305

Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.
Uintah County, Utah



Legend

- Emulsion Line
- Load Rack
- Water Line
- Gas Sales
- Oil Line

NOT TO SCALE

SURVEYED BY:	T.R.P.	DATE SURVEYED:	07-17-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY:	F.T.M.	DATE DRAWN:	08-27-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE:	NONE	REVISED:			

RECEIVED: November 14, 2014

NEWFIELD

VIA ELECTRONIC DELIVERY

November 18, 2014

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
GMBU 110-36-8-17
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 36: NWNE (ML-44305)
772' FNL 2011' FEL

At Target: T8S-R17E Section 36: SWNE (ML-44305)
1530' FNL 1989' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/14/14, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

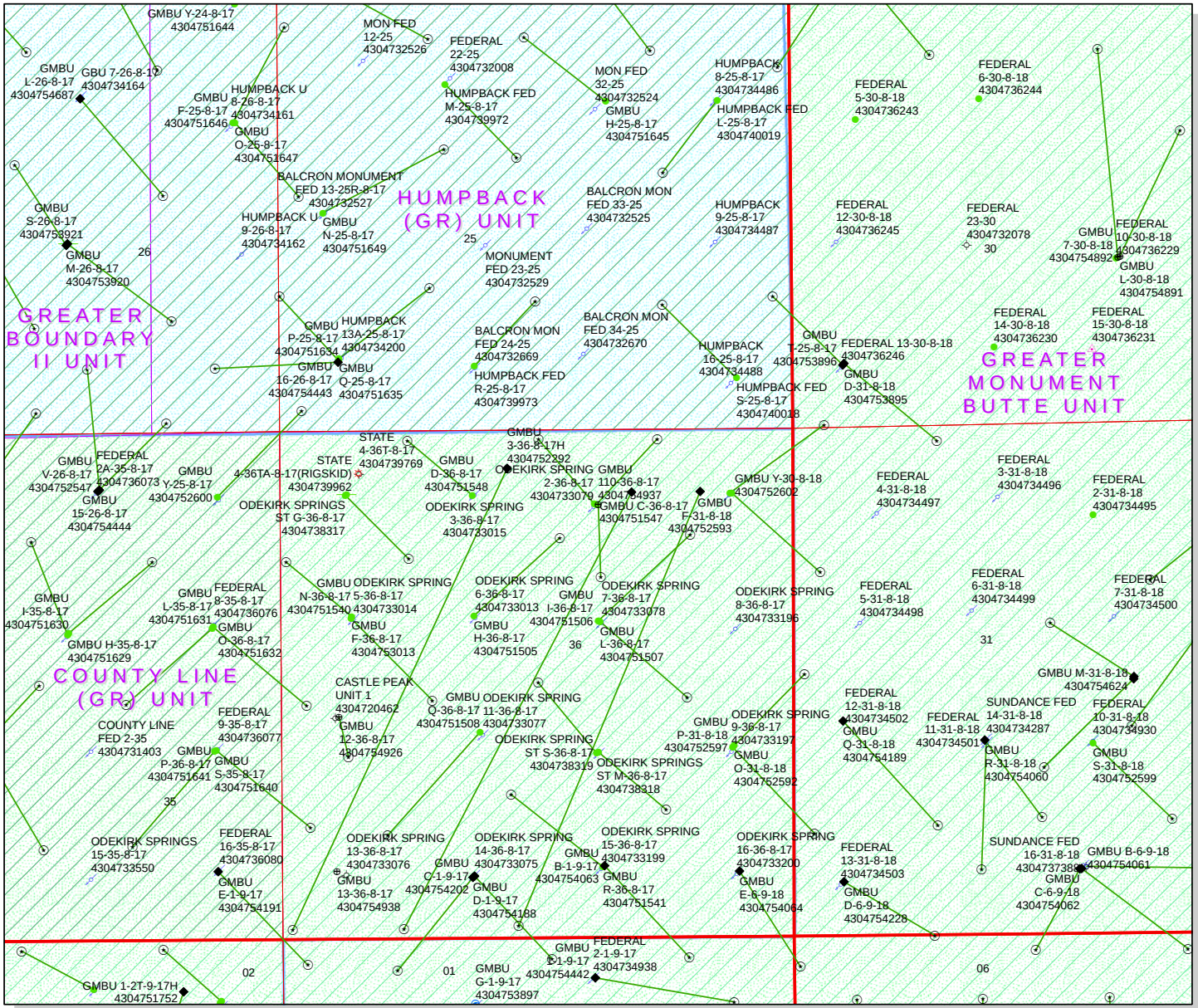
NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-323-9770 or by email at ldein@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Levi Dein
Landman

API Well Number: 43047549370000



API Number: 4304754937

Well Name: GMBU 110-36-8-17

Township: T08.0S Range: R17.0E Section: 36 Meridian: S

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 11/20/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,300 650 0 1,300 Feet

1:12,802

RECEIVED: November 20, 2014

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:
3160
(UT-922)

November 24, 2014

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-53233	GMBU 110-31-8-17	Sec 31 T08S R17E 0819 FNL 2071 FEL BHL Sec 31 T08S R17E 1456 FNL 1920 FEL
43-013-53234	GMBU 104-32-8-17	Sec 29 T08S R17E 0794 FSL 0813 FWL BHL Sec 32 T08S R17E 0322 FNL 0567 FWL
43-013-53235	GMBU 117-31-8-17	Sec 31 T08S R17E 2025 FNL 0647 FEL BHL Sec 31 T08S R17E 2455 FSL 0641 FEL
43-013-53236	GMBU 109-31-8-17	Sec 31 T08S R17E 2005 FNL 0653 FEL BHL Sec 31 T08S R17E 1124 FNL 0639 FEL
43-047-54937	GMBU 110-36-8-17	Sec 36 T08S R17E 0772 FNL 2011 FEL BHL Sec 36 T08S R17E 1530 FNL 1989 FEL
43-047-54938	GMBU 13-36-8-17	Sec 36 T08S R17E 0706 FSL 0565 FWL
43-047-54983	GMBU K-14-9-17	Sec 13 T09S R17E 2121 FSL 0815 FWL BHL Sec 14 T09S R17E 2428 FNL 0259 FEL

This office has no objection to permitting the wells at this time.

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2014.11.24 10:40:54 -07'00'

RECEIVED: November 25, 2014

API Well Number: 43047549370000

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-24-14

RECEIVED: November 25, 2014

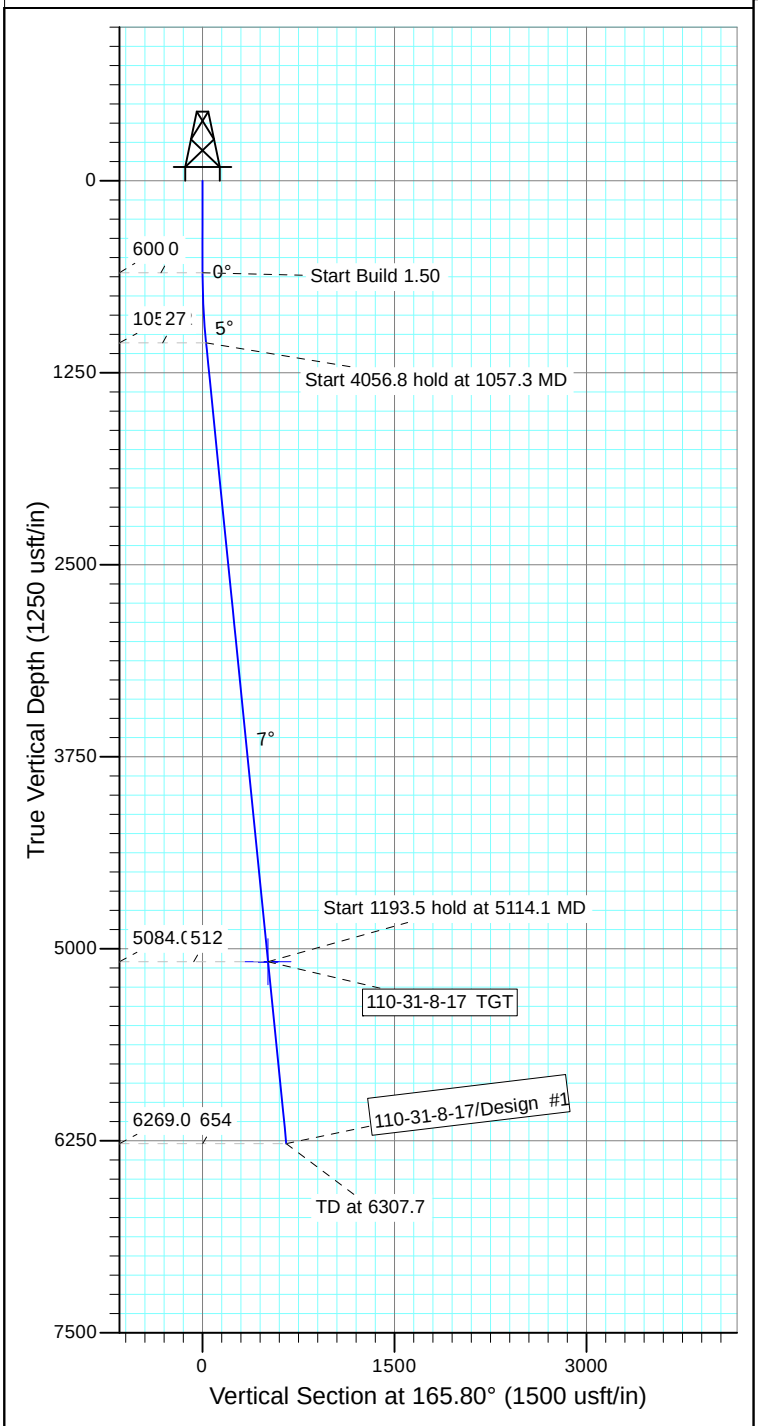
API Well Number: 43047549370000

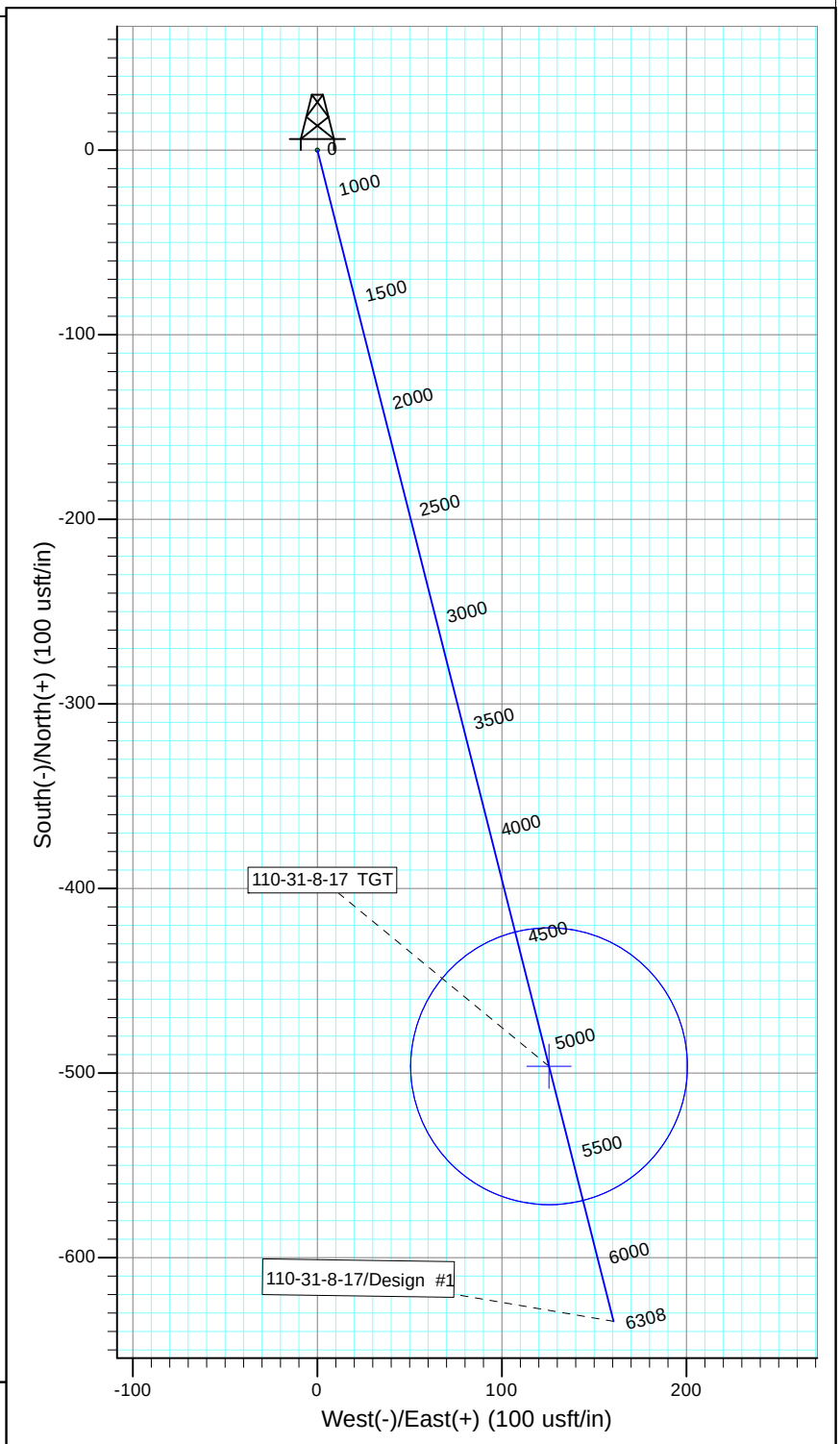
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 31 T8S R17E
Well: 110-31-8-17
Wellbore: Wellbore #1
Design: Design #1

T M
Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 51973.6snT
Dip Angle: 65.74°
Date: 9/9/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
110-31-8-17 TGT	5084.0	-496.2	125.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1057.3	6.86	165.80	1056.2	-26.5	6.7	1.50	165.80	27.3	
4	5114.1	6.86	165.80	5084.0	-496.2	125.6	0.00	0.00	511.9	110-31-8-17 TGT
5	6307.7	6.86	165.80	6269.0	-634.5	160.5	0.00	0.00	654.4	

PAYZONE DIRECTIONAL

API Well Number: 43047549370000

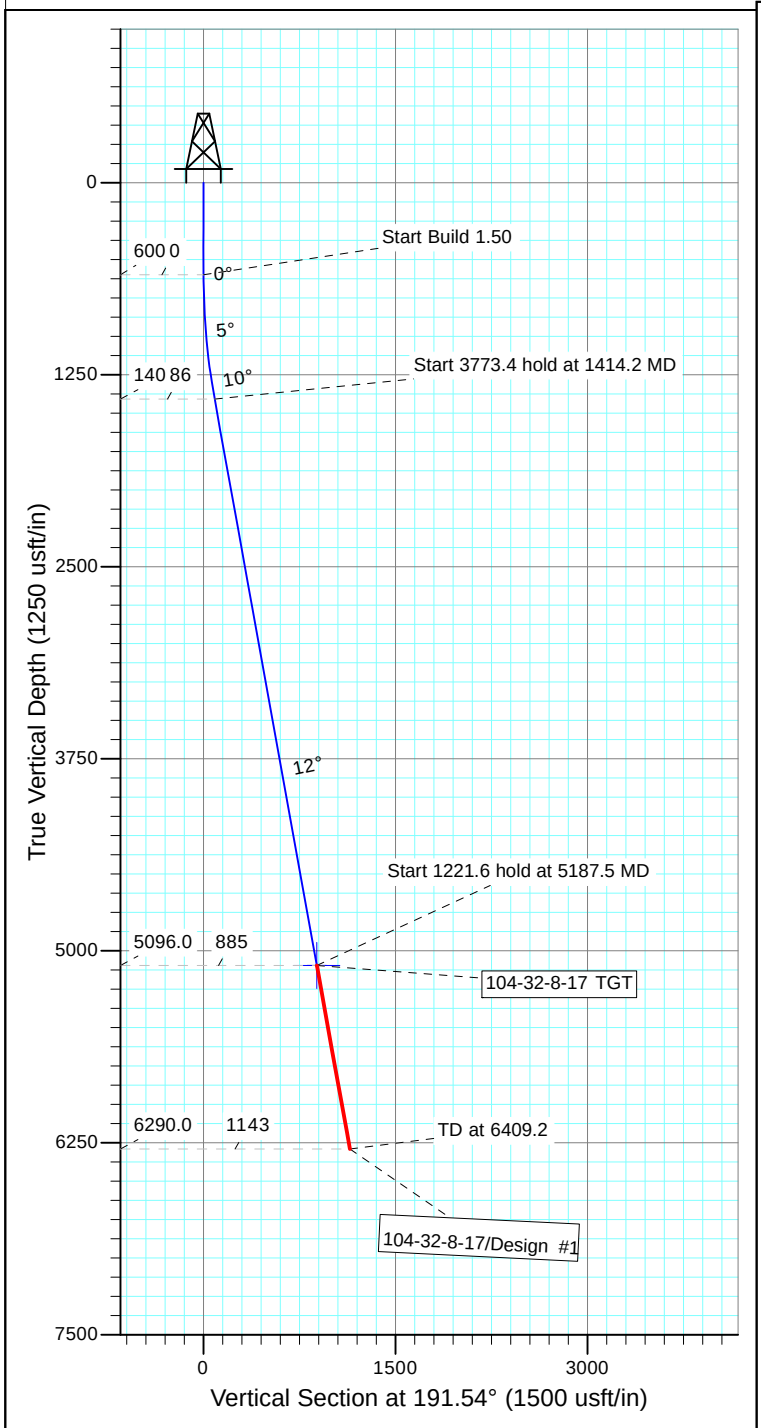
NEWFIELD

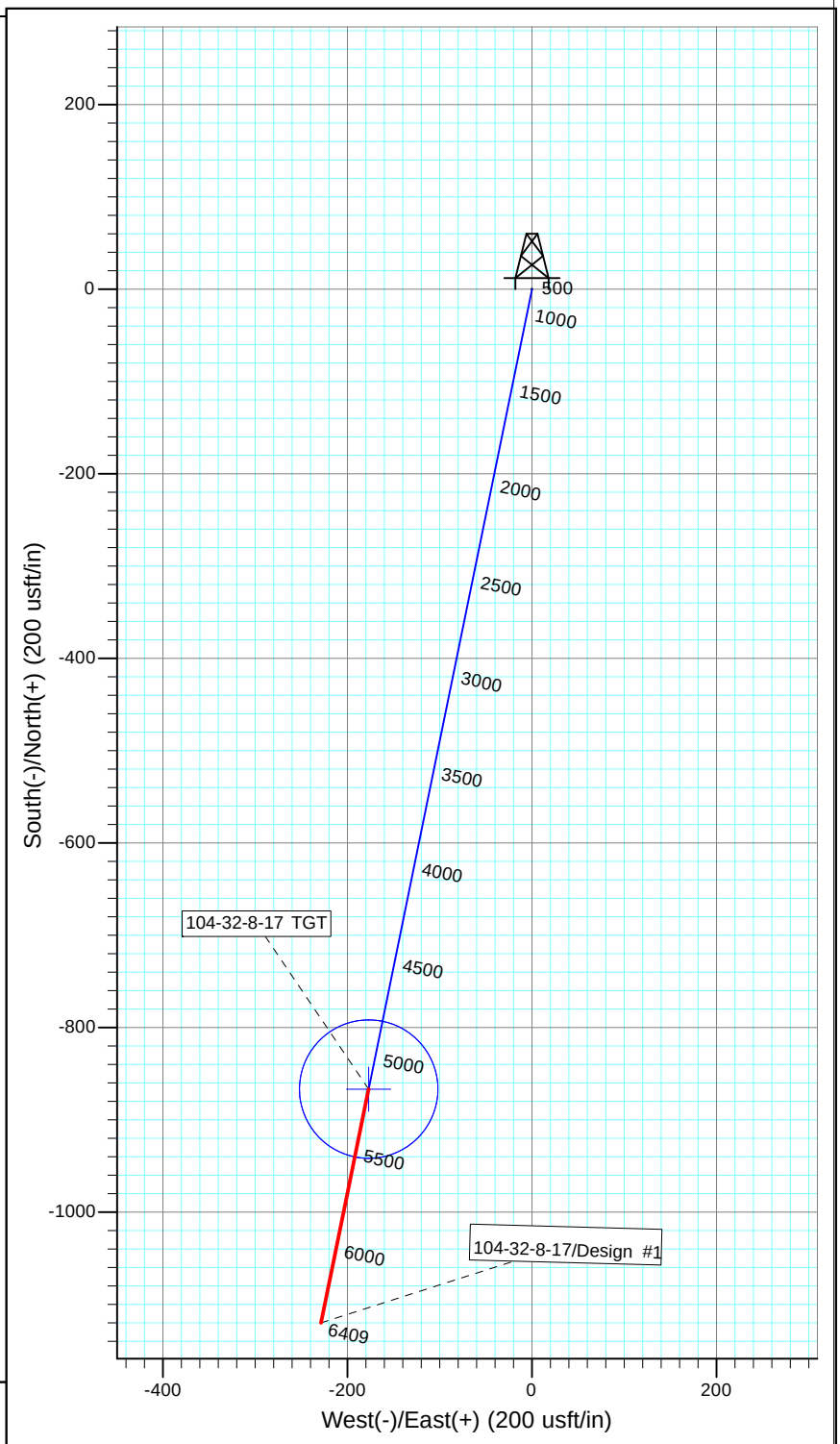
Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R17E
Well: 104-32-8-17
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.89°

Magnetic Field
Strength: 51977.6snT
Dip Angle: 65.75°
Date: 9/9/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
104-32-8-17 TGT	5096.0	-866.8	-177.0	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1414.2	12.21	191.54	1408.0	-84.7	-17.3	1.50	191.54	86.4	
4	5187.5	12.21	191.54	5096.0	-866.8	-177.0	0.00	0.00	884.7	104-32-8-17 TGT
5	6409.2	12.21	191.54	6290.0	-1120.0	-228.7	0.00	0.00	1143.1	

PAYZONE DIRECTIONAL

API Well Number: 43047549370000

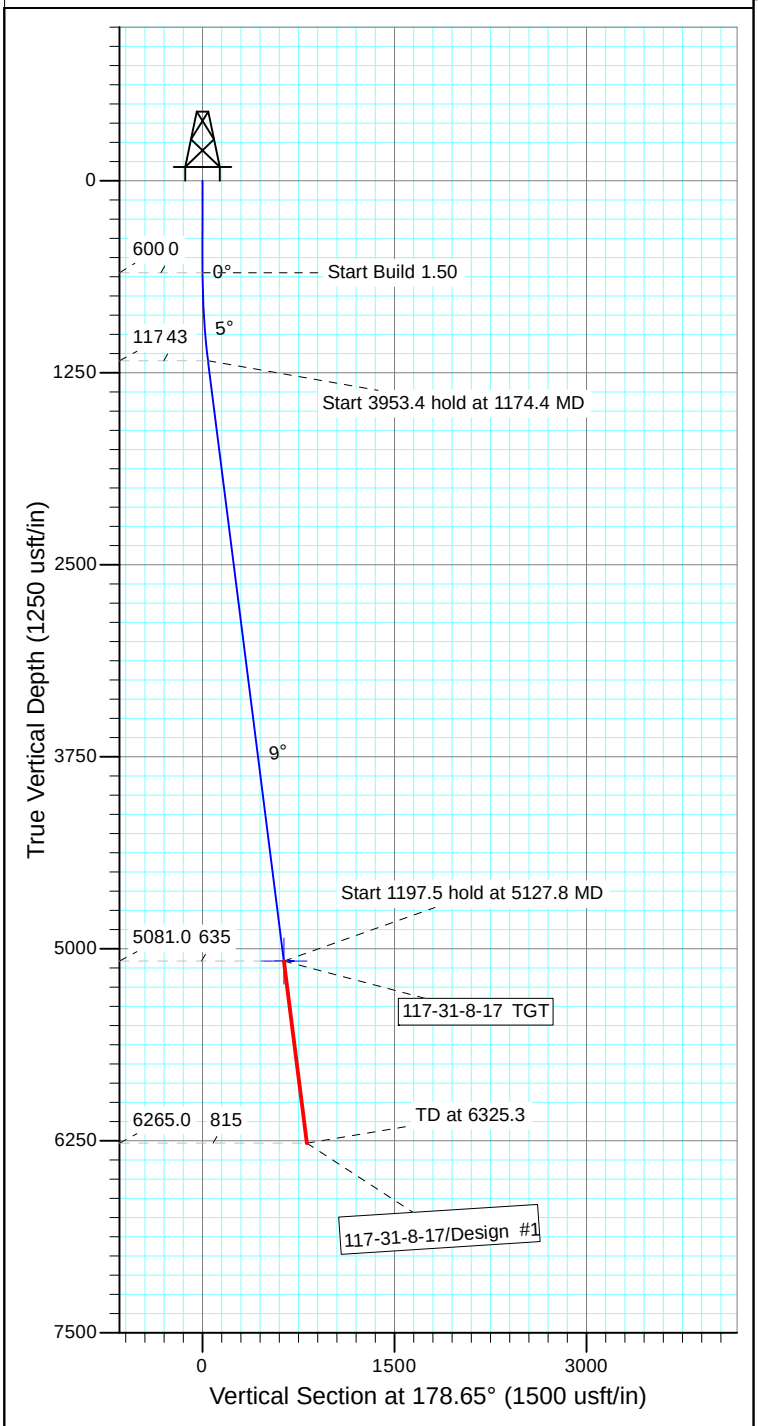
NEWFIELD

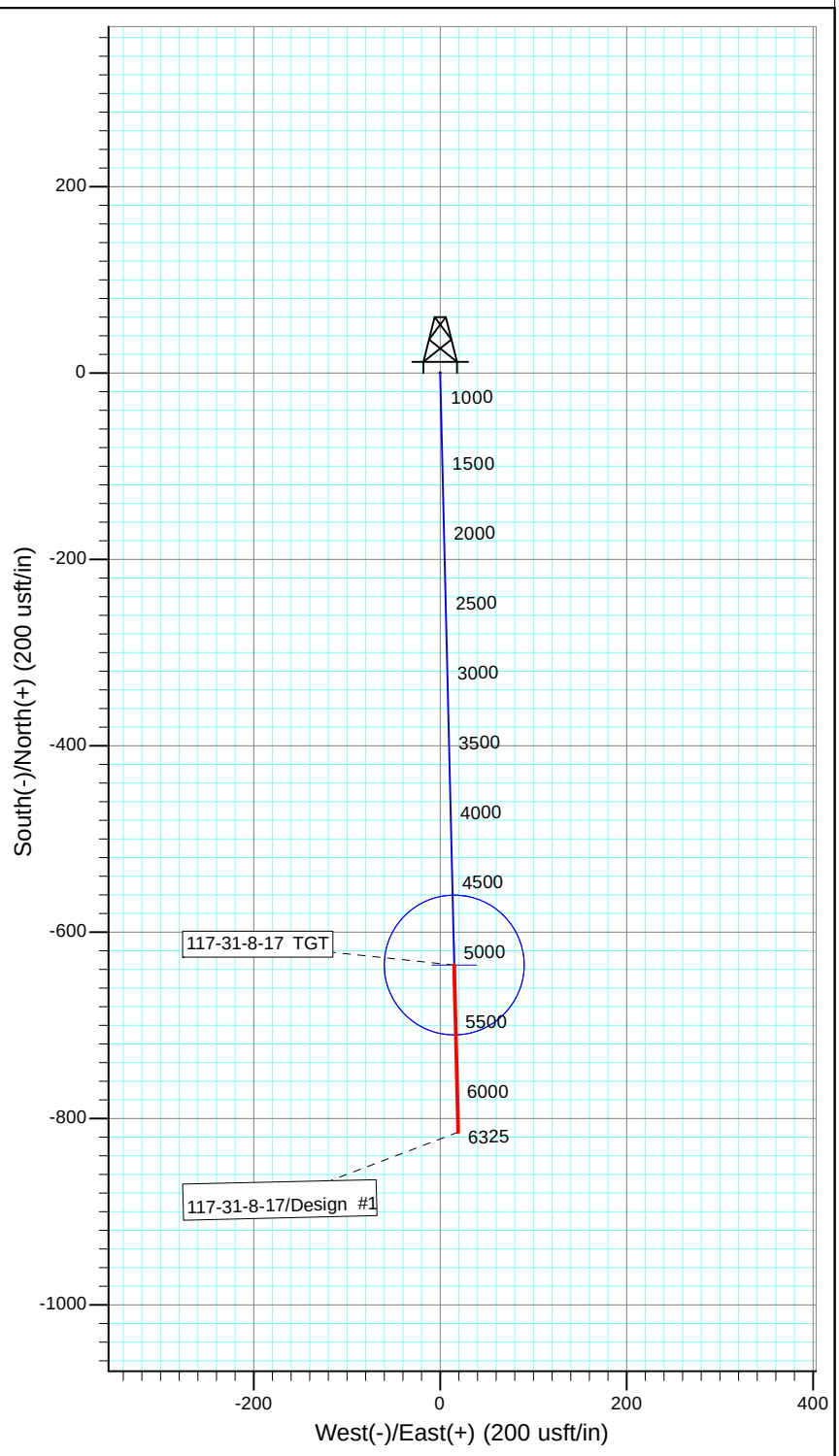
Project: USGS Myton SW (UT)
Site: SECTION 31 T8S R17E
Well: 117-31-8-17
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 51975.7snT
Dip Angle: 65.74°
Date: 8/27/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
117-31-8-17 TGT	5081.0	-635.2	15.0	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1174.4	8.62	178.65	1172.2	-43.1	1.0	1.50	178.65	43.1	
4	5127.8	8.62	178.65	5081.0	-635.2	15.0	0.00	0.00	635.4	117-31-8-17 TGT
5	6325.3	8.62	178.65	6265.0	-814.6	19.2	0.00	0.00	814.8	

PAYZONE DIRECTIONAL

API Well Number: 43047549370000

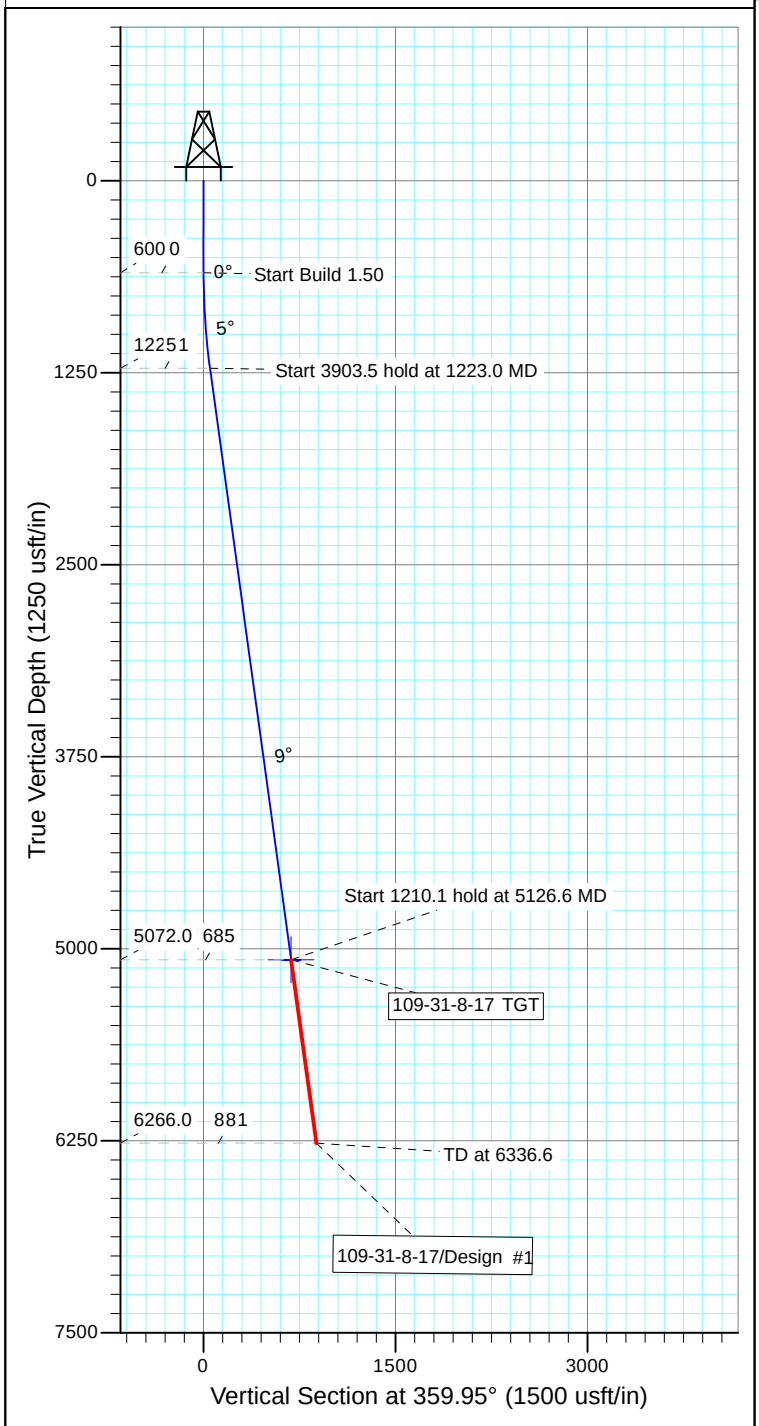
NEWFIELD

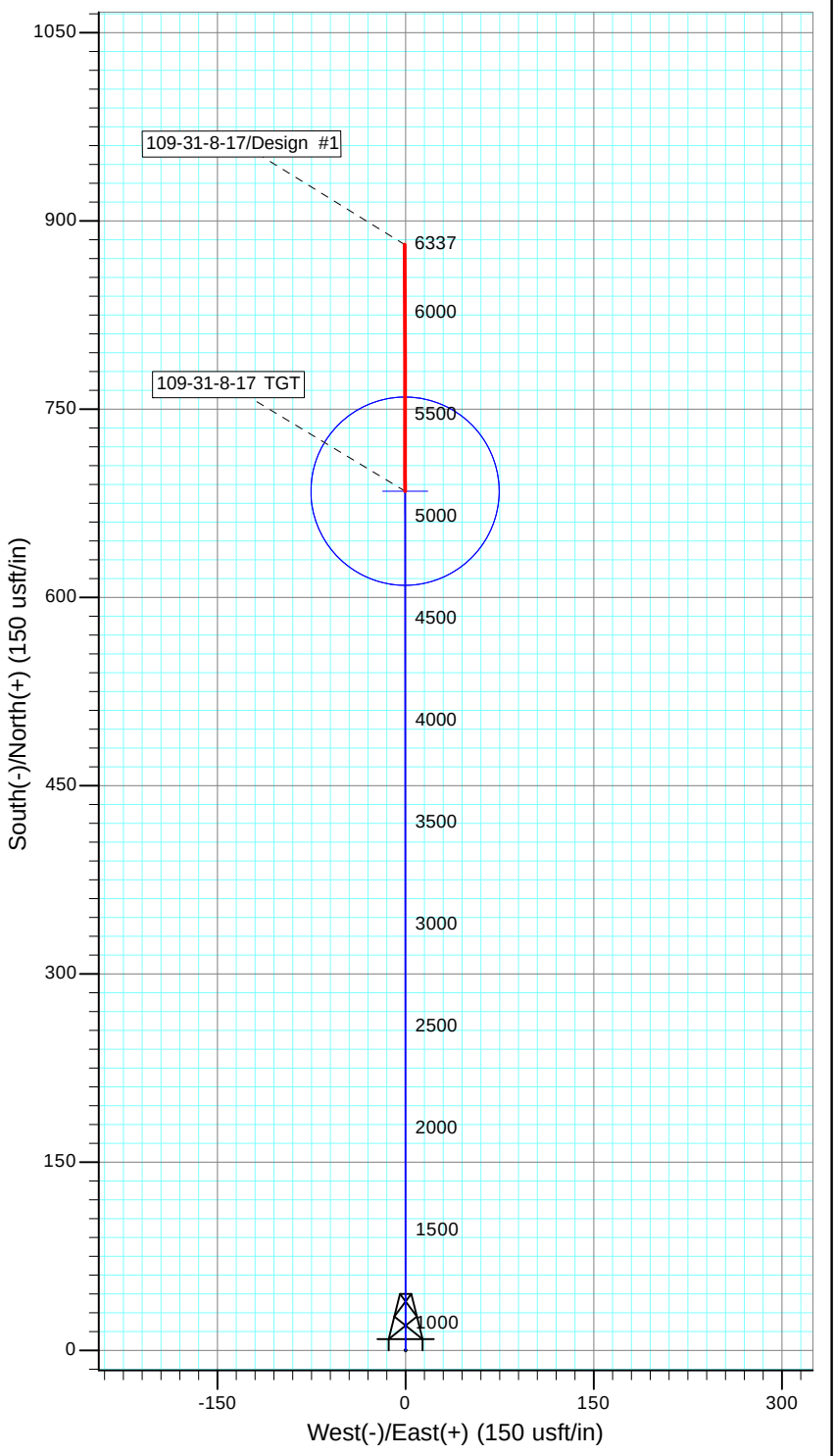
Project: USGS Myton SW (UT)
Site: SECTION 31 T8S R17E
Well: 109-31-8-17
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 51975.8snT
Dip Angle: 65.74°
Date: 8/27/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
109-31-8-17 TGT	5072.0	684.6	-0.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1223.0	9.35	359.95	1220.3	50.7	0.0	1.50	359.95	50.7	
4	5126.6	9.35	359.95	5072.0	684.6	-0.6	0.00	0.00	684.6	109-31-8-17 TGT
5	6336.6	9.35	359.95	6266.0	881.1	-0.8	0.00	0.00	881.1	

PAYZONE DIRECTIONAL

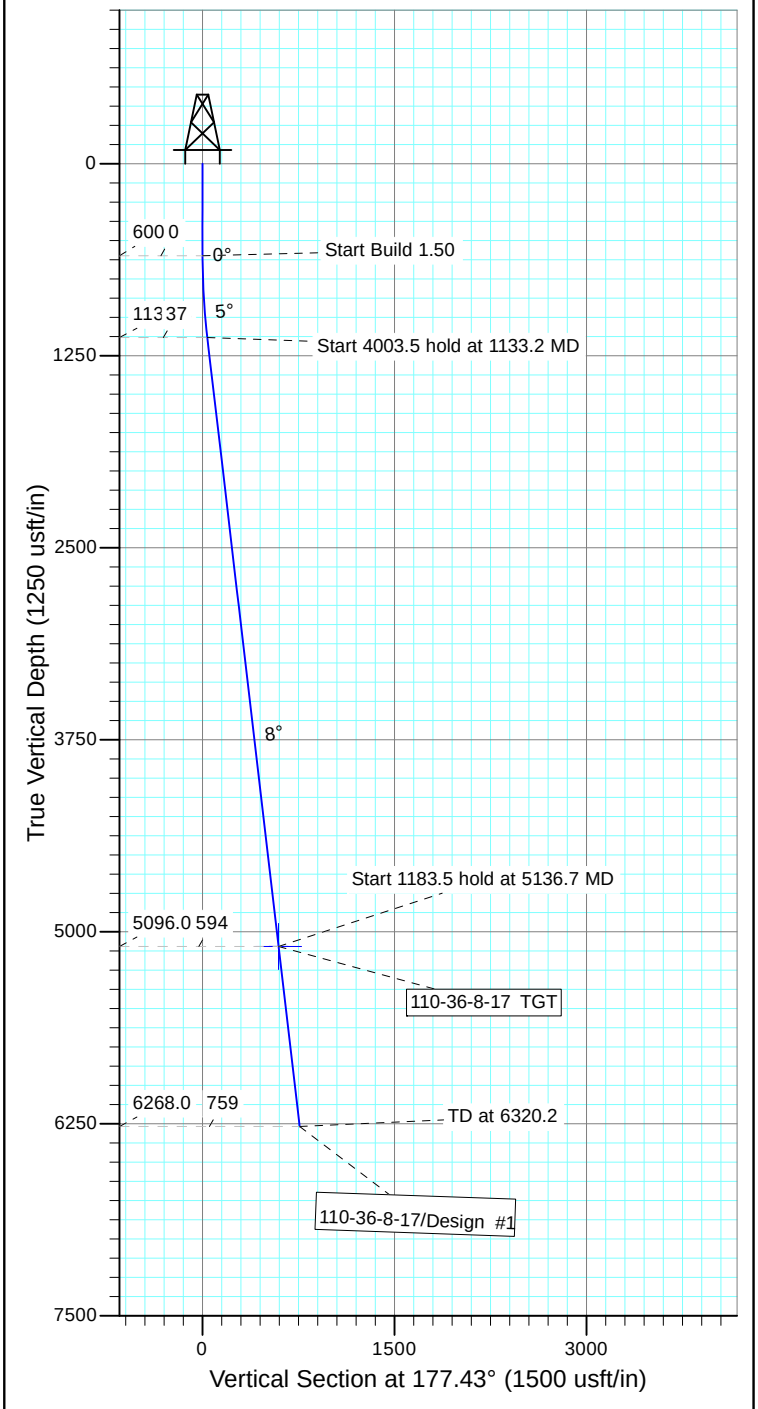
API Well Number: 43047549370000

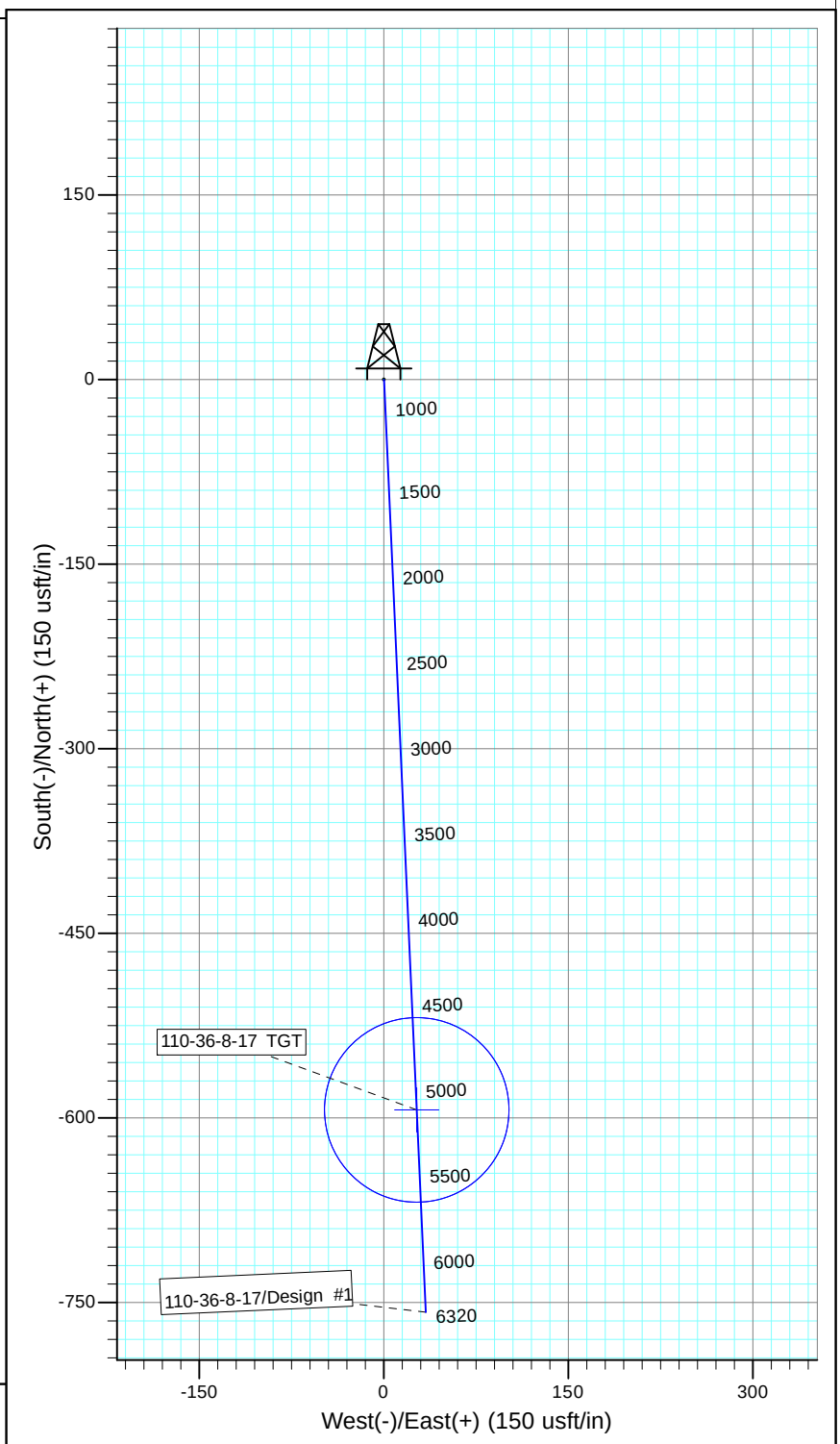
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R17E
Well: 110-36-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.86°

Magnetic Field
Strength: 51993.3snT
Dip Angle: 65.76°
Date: 8/22/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
110-36-8-17 TGT	5096.0	-593.6	26.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1133.2	8.00	177.43	1131.4	-37.1	1.7	1.50	177.43	37.2	
4	5136.7	8.00	177.43	5096.0	-593.6	26.6	0.00	0.00	594.2	110-36-8-17 TGT
5	6320.2	8.00	177.43	6268.0	-758.1	34.0	0.00	0.00	758.8	

PAYZONE DIRECTIONAL

API Well Number: 43047549370000

NEWFIELD

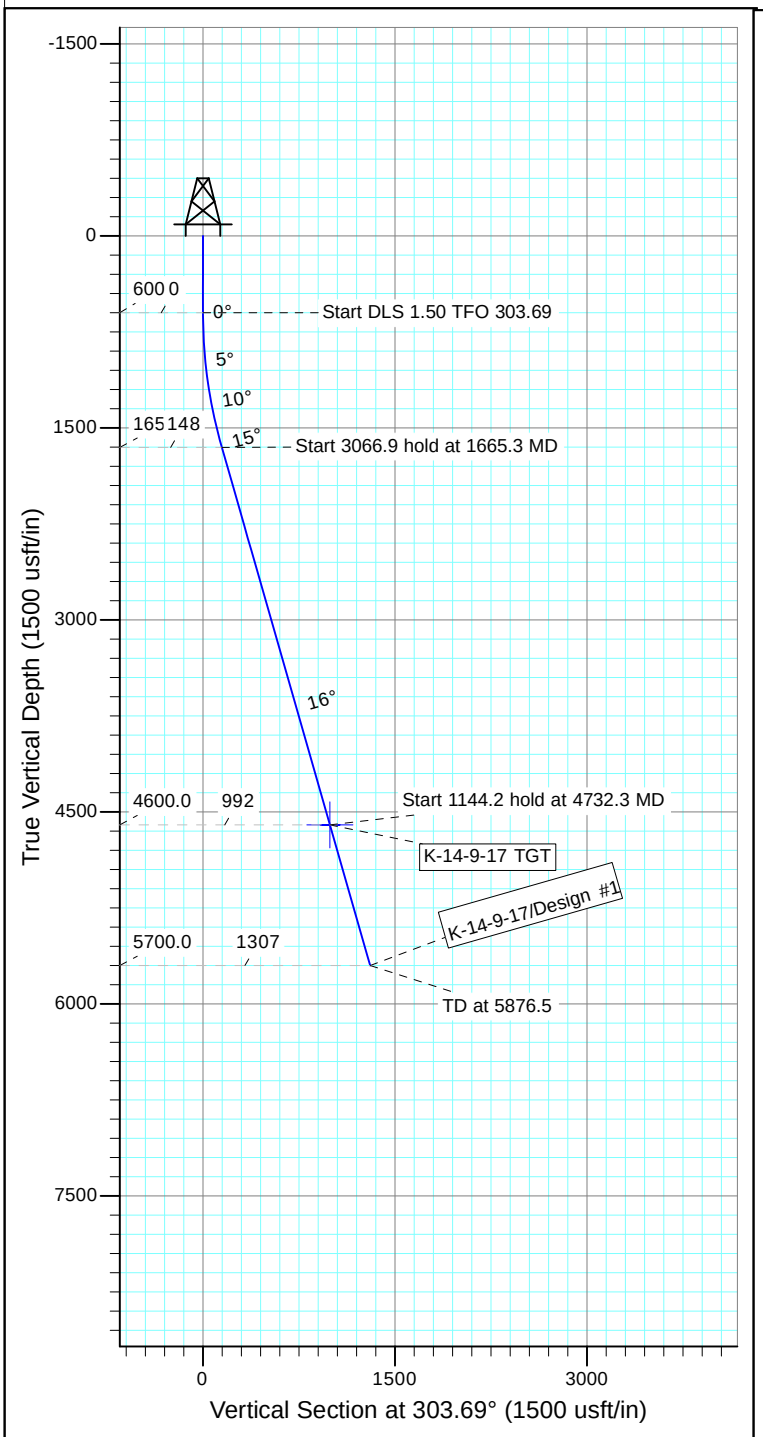
Project: USGS Myton SW (UT)
Site: Section 13 T 9S R17E
Well: K-14-9-17
Wellbore: Wellbore #1
Design: Design #1

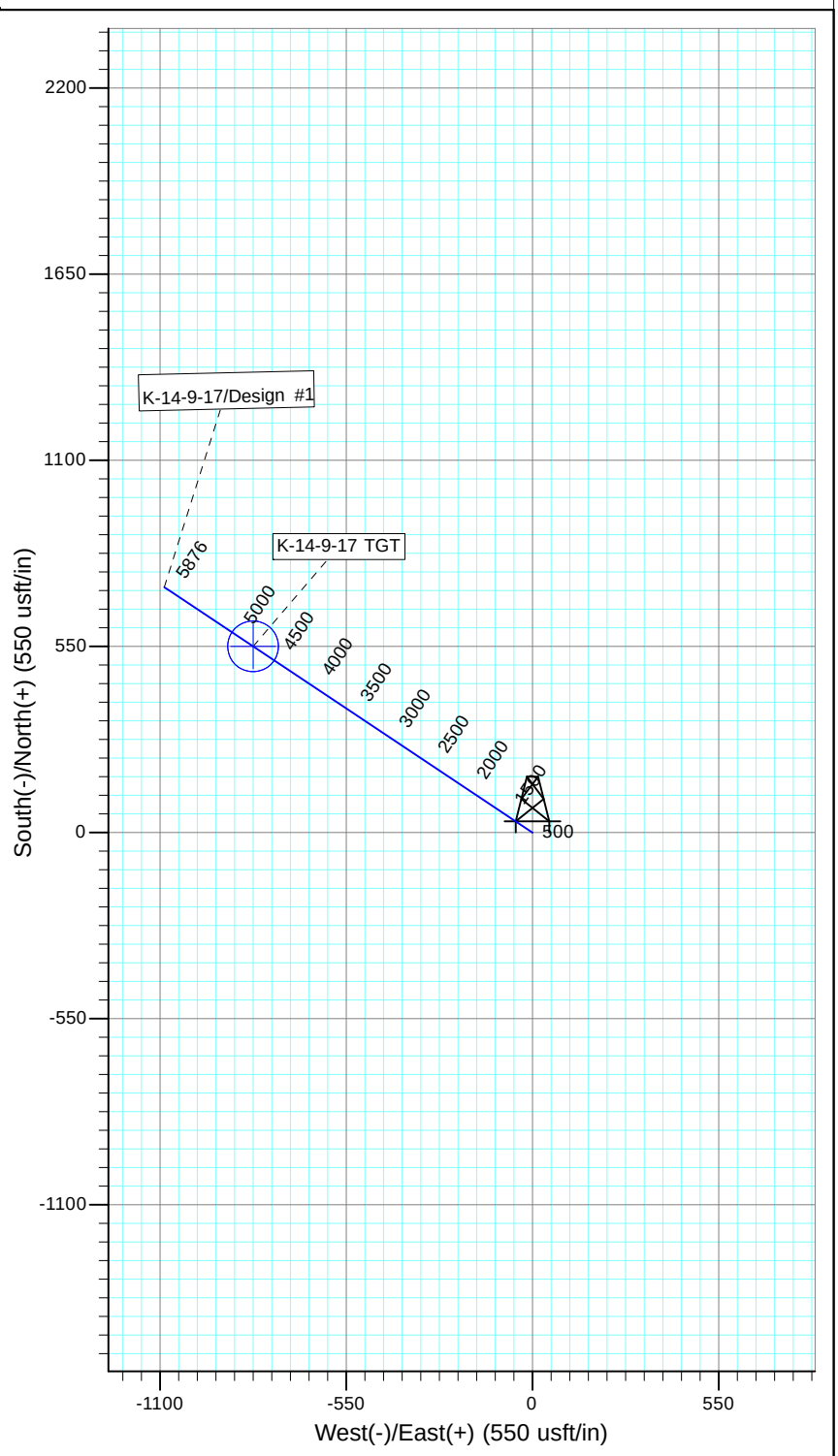
T M

Azimuths to True North
Magnetic North: 10.95°

Magnetic Field
Strength: 52035.3snT
Dip Angle: 65.74°
Date: 12/2/2013
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
K-14-9-17 TGT	4600.0	550.2	-825.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1665.3	15.98	303.69	1651.6	81.9	-122.8	1.50	303.69	147.6	
4	4732.3	15.98	303.69	4600.0	550.2	-825.3	0.00	0.00	991.9	K-14-9-17 TGT
5	5876.5	15.98	303.69	5700.0	725.0	-1087.5	0.00	0.00	1307.0	

PAYZONE DIRECTIONAL

Diana Mason <dianawhitney@utah.gov>

Newfield Approvals

Jeff Conley <jconley@utah.gov> Fri, Jan 9, 2015 at 10:00 AM
Reply-To: jconley@utah.gov
To: Diana Mason <dianawhitney@utah.gov>, Bradley Hill <bradhill@utah.gov>
Cc: mcrozier@newfield.com

Hello,

The following wells have been approved by SITLA including arch and paleo:

(4304754937) GMBU 110-36-8-17
(4304754938) GMBU 13-36-8-17

Thanks,

--
Jeff Conley
SITLA Resource Specialist
jconley@utah.gov
801-538-5157

API Well Number: 43047549370000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY GMBU 110-36-8-17 43047549370000

Well Name	NEWFIELD PRODUCTION COMPANY GMBU 110-36-8-17 430475493			
String	SURF	PROD		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	6320		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.3		
BOPE Proposed (psi)	200	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2717	8.3		

Calculations	SURF String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	129		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	93	YES	Rotating head req'd, air system
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO	OK
Required Casing/BOPE Test Pressure=		300	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi	*Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2728		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1970	YES	2M 8 inch double RAM hydraulic
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1338	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1404	NO	Reasonable
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi	*Assumes 1psi/ft frac gradient

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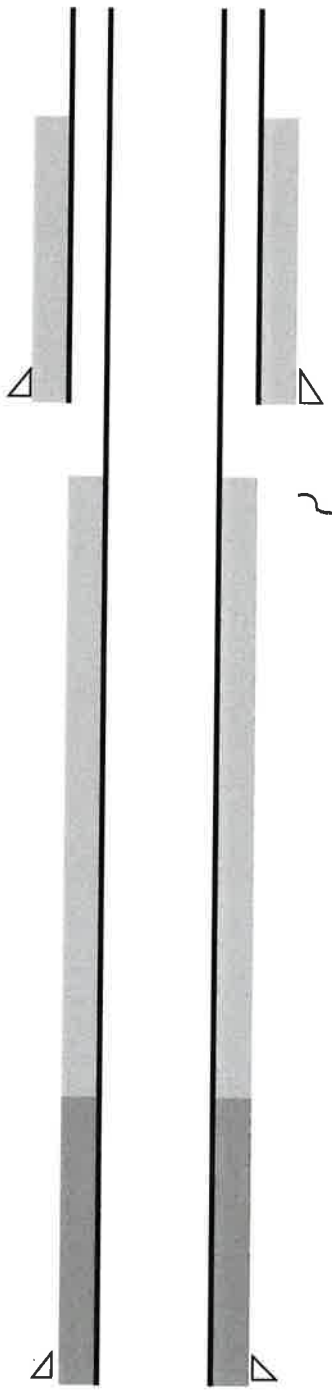
Newfield Production Company
GMBU 110-36-8-17
43047549370000



Formation	Depth (MD)
UINTA	0
BMSW	300
GRRV	1663
WSTCH	6349

APD

8.625 " Casing
300 ' MD
300 ' TVD
61 ' TOC
300 ' Tail
15 % Washout
12.25 " Hole

Surf

2 TOC @ surface @ 7% w.o.
Strip cmt ✓

2 TOC @ surface @ 7% w.o.
Strip cmt

APD

5.5 " Casing
6320 ' MD
6268 ' TVD
838 ' TOC
4584 ' Tail
12 % Washout
7.875 " Hole

Surf
4320'

✓

772 FNL 2011 FEL (surf)
1207 FNL 1992 FEL (prod)
1530 FNL 1989 FEL (TD)
Survey 1530' FNL 1977' FEL ✓ OK.

WIW 0.4 mi SE
43047331960
4461' - 5836'

Newfield Production Company
GMBU 110-36-8-17
43047549370000

				1.125			1		1.8			
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
8.625 " Casing	93	1370	129	10.59	2950	300	9.83	244	33.89	262	7.2	6.3
	MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield
	8.3	0.12			1390	24.0	J-55	STC	138	1.17		
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
5.5 " Casing	1324	4040	2702	1.49	4810	2702	1.78	217	2.55	5472	97.2	85.0
	MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield
	8.3	0.22			2702	15.5	J-55	LTC	298	3.26	363	1.24

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name GMBU 110-36-8-17
API Number 43047549370000 **APD No** 10634 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 NWNE **Sec** 36 **Tw** 8.0S **Rng** 17.0E 772 FNL 2011 FEL
GPS Coord (UTM) **Surface Owner**

Participants

Mandie Crozier, Joe Pippy, Ryan Goodliffe (Newfield), Jeff Conley (SITLA)

Regional/Local Setting & Topography

This location is approximately 17.2 road miles south east of Myton, Utah nearly 1.7 miles east of the Uintah/ Duchesne County line. The location is placed in a relatively flat portion of the Pariette Bench area next to a historic jeep trail and many other petroleum wells and activiites. Location is bounded by an ephemeral stream approximately 1/2 mile to the north, drawn but not named , on a DRG 24k map. Location is also bounded on the South by an additional unnamed stream drawn on a 24k DRG.

Surface Use Plan

Current Surface Use
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	**Width** 211 **Length** 303	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna
Existing oil well pad

Soil Type and Characteristics
shallow sandy clay loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

RECEIVED: February 24, 2015

API Well Number: 43047549370000

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	TDS>10000	15	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	50	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is proposed in a cut stable location. Dimensions are 70ft x 40ft x 8ft. Newfield representative Joe Pippy stated that a 16 mil reserve pit liner and felt subliner are standard equipment on all Newfield reserve pits. This liner program appears adequate for this location.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Richard Powell	11/25/2014
Evaluator	**Date / Time**

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Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
10634	43047549370000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**		
Well Name	GMBU 110-36-8-17		**Unit**	GMBU (GRRV)	
Field	MONUMENT BUTTE		**Type of Work**	DRILL	
Location	NWNE 36 8S 17E S 772 FNL 2011 FEL GPS Coord (UTM) 589302E 4437103N				

Geologic Statement of Basis

Newfield proposes to set 300 feet of surface casing at this location. The base of the moderately saline water at this location is estimated to be at approximately 300 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water.

Brad Hill	12/15/2014
APD Evaluator	**Date / Time**

Surface Statement of Basis

This proposed addition to an existing 3 well pad is on state surface with state minerals. SITLA representative Jeff Conley was in attendance for this onsite and stated no concerns with the additional drilling on this site. A reserve pit is proposed and according to Newfield representative Joe Pippy a 16 mil liner and felt subliner will be used. This is a flat site and the new activity will require a 25 foot expansion to the northeast. It appears this expansion will not create stability or drainage problems.

Richard Powell	11/25/2014
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/14/2014 **API NO. ASSIGNED:** 43047549370000

WELL NAME: GMBU 110-36-8-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNE 36 080S 170E **Permit Tech Review:** ☑

SURFACE: 0772 FNL 2011 FEL **Engineering Review:** ☑

BOTTOM: 1530 FNL 1989 FEL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 40.07947 **LONGITUDE:** -109.95261

UTM SURF EASTINGS: 589302.00 **NORTHINGS:** 4437103.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-44305 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: GMBU (GRRV)

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
12 - Cement Volume (3) - daynedoucet
15 - Directional - dmason
25 - Surface Casing - daynedoucet
27 - Other - bhill
28 - Other2 - ddoucet

RECEIVED: February 24, 2015

GARY R. HERBERT
Governor
SPENCER J. COX
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: GMBU 110-36-8-17
API Well Number: 43047549370000
Lease Number: ML-44305
Surface Owner: STATE
Approval Date: 2/24/2015

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Cement volume for the 5-1/2" production string shall be determined from actual hole diameter in order to place the top of cement at surface and tail cement to 4320' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

A properly lubricated and maintained rotating head shall be used during air drilling.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-44305

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GMBU 110-36-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43047549370000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0772 FNL 2011 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 08.0S Range: 17.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/24/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to extend the Application for Permit to Drill this well.

Approved by the
Utah Division of
Oil, Gas and Mining
February 03, 2016

Date: _____

By: _____

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE N/A		**DATE** 2/2/2016

RECEIVED: Feb. 02, 2016

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047549370000

API: 43047549370000
Well Name: GMBU 110-36-8-17
Location: 0772 FNL 2011 FEL QTR NWNE SEC 36 TWNP 080S RNG 170E MER S
Company Permit Issued to: NEWFIELD PRODUCTION COMPANY
Date Original Permit Issued: 2/24/2015

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Mandie Crozier **Date:** 2/2/2016
Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Feb. 02, 2016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-44305

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GMBU 110-36-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43047549370000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0772 FNL 2011 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 08.0S Range: 17.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/24/2017	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to extend the Application for Permit to Drill this well.

Approved by the Utah Division of Oil, Gas and Mining
February 09, 2017
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE N/A		**DATE** 2/6/2017

RECEIVED: Feb. 06, 2017

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047549370000

API: 43047549370000
Well Name: GMBU 110-36-8-17
Location: 0772 FNL 2011 FEL QTR NWNE SEC 36 TWNP 080S RNG 170E MER S
Company Permit Issued to: NEWFIELD PRODUCTION COMPANY
Date Original Permit Issued: 2/24/2015

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Mandie Crozier **Date:** 2/6/2017
Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Feb. 06, 2017